WELCOME FROM THE ERS PRESIDENT

"The 28th ERS International Congress is taking place in Paris this year and I am looking forward to enjoying the experience; the Congress is the biggest in respiratory medicine, it is a forum to get updated with the latest studies in the field, to meet peers and key opinion leaders, to enjoy the many educational sessions and to be part of this exciting and productive atmosphere, in a great congress centre and an historic and alluring city."

"This event is the result of many months of hard work. The ERS Science and Education Councils have worked tirelessly alongside ERS Officers to develop a programme of sessions and activities which not only represent the latest in respiratory medicine and science but also cater to the varied needs of our growing membership and wider community. This year’s programme, as in the past, has something for clinicians, scientists and allied health professionals: live and hands-on sessions, grand rounds, meet-the-expert seminars, new scientific evidence and, very importantly, the opportunity to meet with colleagues and to network.

"Networking is always a very big pull for our Congress; with over 22,000 delegates regularly in attendance, it is rightly seen as the place to be and to meet up with colleagues and peers from all over the world. It can be the catalyst for new collaborations and forming networks and this helps the advancement of knowledge and science and also helps our members’ careers. Having the opportunity and the proper space to share ideas and knowledge and discuss issues and experiences plays a significant role in fulfilling our own personal goals of becoming better and feeling part of a productive and energetic community, it also helps reach the ultimate goal of better respiratory health across Europe and worldwide.

"I am looking forward to being in Paris – to welcome you all to what I know will be the respiratory event of the year, and to participate, absorb the knowledge being shared over the five-day period and enjoy the atmosphere. As the current ERS President, I am so very proud to be celebrating my presidency with this prestigious event! I would like to thank our officers and our members and importantly, all the ERS staff and departments who play a key role in bringing this big and complex event to life and who continue to do an excellent job year by year."
Welcome to Paris 2018!

We are delighted to welcome friends and colleagues to our home city of Paris for the ERS International Congress 2018.

Paris is a fitting choice for the largest respiratory meeting in the world as it is an important scientific centre in Europe; think René Descartes, Pierre and Marie Curie, the Sorbonne University, the freedom of thinking (les Lumières) and revolutionary ideas.

Paris is certainly one of the most interesting cities in Europe and worldwide. People from all over the world travel to Paris to discover and experience the French way of life. Only a few cities on earth capture the imaginations and hearts like Paris.

Paris is the city of love, inspiration, art and fashion. It is a wonderful combination of historic, modern, romantic, intellectual, grandiose and elegantly understated. The nightlife and warm atmosphere are welcoming and will make you feel at home.

The French capital has fascinating architecture in abundance, not least the iconic Eiffel Tower. It has a huge number of museums which house some of the world’s most important artworks. Artistic vibrancy resonates throughout the city. It would take a lifetime to fully experience the Louvre, home to the world’s most diverse and extensive collection of pre-20th century art, not to mention the many other Museums nearby, such as the Orsay, Rodin, and the Musée du quai Branly.

Paris is the largest city in France and is located in the northwest region. It sits on the banks of the Seine River and has a population of approximately 2,315,000.

Covering key topics in respiratory medicine from across the spectrum of disease areas including TB, lung cancer, chronic and acute respiratory failure, sleep breathing disorders, interstitial lung diseases, pneumonia, cystic fibrosis, COPD and asthma, amongst others, the Congress programme is set to deliver the best advances in both science and education.

This Congress will specifically highlight the importance of environment in respiratory health and focus on the need to personalise medicine in the respiratory arena. Special attention will also be paid to our interactions with microorganisms in our environment as well as those that live in peace within our organism.

We look forward to welcoming you to the ERS International Congress where we will continue our mission to promote lung health and drive standards in respiratory medicine, in close partnership with national societies, patient organisations, and various institutions all over Europe and beyond.
PRACTICAL INFORMATION A-Z

Catering
No official lunches will be provided for Congress participants but there will be a number of lunch facilities around the Congress centre, including cafeterias, restaurants, bars and several coffee/snack points. The official catering partner is not confirmed yet.

Childcare
Please note that no childcare service will be provided in Paris.

Congress partners
Venue
Paris Expo Porte de Versailles
1 Place de la Porte de Versailles, 75015 Paris

Accommodation
B Network
Rue Royale 20
75008 Paris
France
Tel : +33 158 162 011
e-mail: ers2018@b-network.com
Find out how to make individual and group accommodation bookings

Insurance and disclaimer
The European Respiratory Society (ERS), Paris Expo Porte de Versailles, Interplan, the registration partner and all other Congress partners accept no liability for injuries and/or losses of whatever nature incurred by participants and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings. Please check the validity of your own insurance.

Registration
Congrex Switzerland Ltd
Peter Merian-Strasse 80
CH-4002 Basel
Tel: +41 61 686 77 77, Fax: +41 61 686 77 88
e-mail: ers2018.registration@congrex.com

Transportation cards
The transportation card will not be offered for the ERS International Congress 2018. However, it can be purchased in advance when registering for the Congress or on-site at the dedicated desks. Further information and prices will be available when registration opens in April 2018.

Dates and opening hours

<table>
<thead>
<tr>
<th>Date</th>
<th>Congress Centre</th>
<th>Registration</th>
<th>Speakers’ preview Room</th>
<th>ERS Sessions</th>
<th>Evening Symposia</th>
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<td>Saturday, 15 September</td>
<td>07:00-21:00</td>
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*All times are subject to change
### ERS WORLD VILLAGE SOCIETIES LIST

#### National / Affiliated Societies

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<thead>
<tr>
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#### Regional Societies

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#### International Societies

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#### European Societies

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#### European projects / Diseases Groups

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#### Patient organisations

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<td>Fédération française des associations et amicales de maladies insuffisants ou handicapés respiratoires</td>
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<tr>
<td>C</td>
<td>European Federation of Allergy and Airways Diseases Patient Associations</td>
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<tr>
<td>D</td>
<td>FreshAir</td>
<td>Europe</td>
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<td>E</td>
<td>Lovexair Foundation</td>
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<td>Associação de Transplantados Pulmonares de Portugal</td>
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INVITATION
to our opening session

Date: Saturday 15 September
Time: 18:00
Room: HALL 7.3 A (Paris Expo Porte de Versailles)
Dress: Smart casual
The second ERS Satellite will take place on 21 February, 2019

Join us in London, Athens, Lisbon or Warsaw or as one of thousands of delegates participating online from over 100 countries around the world.

There is no registration fee for participation in this cutting-edge, interactive event, which will share the very latest scientific findings and clinical updates in the field.

**Morning session**
Advances in personalised treatment for COPD patients
Chaired by Professor W. Wedzicha

**Afternoon session**
Advances in personalised treatment for ILD patients
Chaired by Professor V. Cottin

Using state-of-the-art live streaming technology, four venues will contribute to the programme.
To access the programme or to register, visit: [www.ersnet.org/satellites](http://www.ersnet.org/satellites)
IF YOU CAN’T ATTEND THE ERS CONGRESS IN PARIS THIS YEAR, JOIN US FOR A ONE DAY EVENT SUMMARIZING THE LATEST CLINICAL ADVANCES IN RESPIRATORY MEDICINE.

Respiratory Updates

Stay at the cutting edge
register for free to join us in LONDON on 2nd November 2018 or register for free to join us ONLINE.

8 speakers covering:
COPD, Asthma, PH, IPF and Lung Cancer

To get the full programme and more details go to ersnet.org/resp-update

Chaired by:
Professor Jørgen Vestbo and Professor John Park

ERS
European Respiratory Society

British Thoracic Society
Better lung health for all
ERS Connect

The PERFECT YEAR-ROUND APP for RESPIRATORY PROFESSIONALS and the essential CONGRESS COMPANION.

ESSENTIAL CONGRESS RESOURCES:
- Full congress programme
- Abstracts, e-posters and webcasts of all presentations
- Congress centre map
- List of industry sessions and exhibition map
- Create your own agenda
- Find popular sessions
- Connect to other participants
- Automatic update for use at future congresses

ALL THE LATEST FROM ERS:
- The latest respiratory news and highlights
- Information on ERS activities
- Access to clinical guidelines
- Cutting-edge medical education resources
- Scientific materials
- Funding opportunities
- Plus much more!

ERS CONNECT IS THE OFFICIAL EUROPEAN RESPIRATORY SOCIETY APP AND ERS INTERNATIONAL CONGRESS COMPANION. It provides an opportunity to stay up-to-date with ERS on a week by week basis, and is a must-have resource for navigating the ERS International Congress.

AVAILABLE FOR FREE FROM:
- App Store
- Google Play

KEEP THE APP AFTER CONGRESS AND USE IT ALL YEAR TO STAY UP TO DATE WITH ALL THE LATEST FROM ERS. IT WILL AUTOMATICALLY UPDATE FOR USE AT THE NEXT CONGRESS.
The ERS Congress Final Programme app is available as a free download for iPhone, iPad and iPod Touch (iOS 7.0 and higher) and Android phones and tablets (4.0 and higher).
ERS-CTS Joint Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.3 C, 08:30–13:00

GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language
FROM DEDICATED SESSIONS IN CHINESE

Note that the presentations will be conducted in Chinese and English with dual projection of slides in both languages.

08:30–11:00
Chinese Programme Part I
Chairs: T. Troosters (Belgium), Chen Wang (China), A. Bush (United Kingdom)

08:30 Update on management of new emerging acute respiratory viral infectious diseases
N. Zhong (China)

09:00 The role of chronic infection in respiratory diseases
E. Polverino (Spain)

09:30 Establishment of PCCM training system in China
C. Wang (China)

10:00 School interventions to improve asthma control
J. Grigg (United Kingdom)

10:30 Break

11:00–13:00
Chinese Programme Part II
Chairs: G. Joos (Belgium), R. Chen (China)

11:00 The Chinese New Guideline on HAP/VAP
J. Qu (China)

11:30 HAP/VAP: new guidelines, new approaches
F. Blasi (Italy)

12:00 Recent advance in home noninvasive mechanical ventilation in China
R. Chen (China)

12:30 Is there still a role for NIV in acute hypoxemic failure?
L. Heunks (Netherlands)
ERS-SPLF Joint Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.1 B, 14:00–17:30
GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language
FROM DEDICATED SESSIONS IN FRENCH

Note that the presentations will be conducted in French with dual projection of slides in French and English.

14:00–15:45
French Programme Part I
Chairs: N. Roche (France), G. Brusselle (Belgium)
14:00 Follow-up of resected bronchial carcinoma
V. Westeel (France)
14:26 Yield of cohorts in the bronchial diseases
C. Raherison-Semjen (France)
14:52 Asthma phenotypes in children: what is the impact at adult age?
J. Just (France)
15:18 Big data applied to sleep
J.-L. Pépin (France)

15:45–17:30
French Programme Part II
Chairs: A. Dinh-Xuan (France), M. Gaga (Greece)
15:45 Atmospheric air pollution: results from interventional studies
I. Annesi Maesano (France)
16:11 Thrombo-embolic pulmonary hypertension: which treatment should we choose?
X. Jais (France)
16:37 Smoking cessation and COPD
M. Waked (Lebanon)
17:03 Anti-tuberculosis drugs: what is new?
G. Migliori (Italy)
ERS-RRS-ARSRM Joint Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.1 B, 09:00–13:00

GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language
FROM DEDICATED SESSIONS IN RUSSIAN

Note that the presentations will be conducted in Russian and English with dual projection of slides in both languages.

09:00–11:00
Russian Speaking Programme 2018: Part I
Chairs: E. Amelina (Russian Federation), I. Sermet-Gaudelus (France)
09:00  An assay of CF transmembrane conductance regulator function that uses primary CF intestinal organoids: shared experiences with the Russian CF centre
J. Beekman (Netherlands)
09:25  Collaboration between the Russian National CF Patient Registry and the European CF Society Patient Registry
E. Amelina (Russian Federation)
09:50  Specific features of spectrum and frequency of CFTR mutations in ethnically different populations of the Russian Federation
N. Kashirskaya (Russian Federation)
10:15  CF: pathogenesis treatment strategies
I. Sermet-Gaudelus (France)
10:40  Break

11:00–13:00
Russian Speaking Programme 2018: Part II
Chairs: E. Davidovskaya (Belarus), A. Belevskiy (Russian Federation)
11:00  Modern concept of sporadic LAM pathogenesis
S. Harari (Italy)
11:30  Clinical experience of LAM patients who were managed in the Russian Federation
A. Chuchalin (Russian Federation)
12:00  Russian experiences in lung transplantation in CF and LAM patients
N. Karchevskaya (Russian Federation)
12:30  Non-invasive diagnosis of lymphangioleiomyomatosis: new biomarkers
L. Young (United States of America)
ERS-ALAT-SBPT-SEPAR-SPP
Joint Spanish / Portuguese Session
Saturday 15 September, 2018 at the ERS International Congress Paris, France, Hall 7.3 C, 14:00–17:30

GAIN NEW SCIENTIFIC KNOWLEDGE IN your own language FROM DEDICATED SESSIONS IN SPANISH AND PORTUGUESE

Note that the presentations will be conducted in Portuguese or Spanish, and in English, with dual projection of slides in either Spanish or Portuguese and English.

14:00–16:00
Spanish and Portuguese Programme Part I
Chairs: C. Jimenez Ruiz (Spain), G. Zabert (Argentina)
14:00  Tuberculosis in a migrating world
       L. Rendon Perez (Mexico)
14:30  Drug-resistant tuberculosis in Europe
       J. Caminero Luna (Spain)
15:00  Panel discussion
15:30  Break

16:00–17:30
Spanish and Portuguese Programme Part II
Chairs: V. Coelho Pinto Hespanhol (Portugal), F. Cavalcanti Lundgren (Brazil)
16:00  Mechanical ventilation in patients with neuromuscular diseases
       M. Alcântara Holanda (Brazil)
16:30  The non-invasive ventilation network in Portugal
       M. Araújo Cunha Guimarães (Portugal)
17:00  Panel discussion
### SATURDAY 15 SEPTEMBER 2018

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French Programme 2018: Part II | Clinical |          |
| 7.3C   | 16:00 - 17:30  
Language session  
Spanish and Portuguese Programme 2018: Part II | Clinical |          |
| 7.3A   | 17:45 - 21:00  
Opening session  
All registered delegates are welcome to join the ERS Leadership for the Opening of the Congress | Clinical |          |
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**SUNDAY 16 SEPTEMBER 2018**

**ERS International Congress 2018**

**OUTLINE PROGRAMME**

**SUNDAY 16 SEPTEMBER, 2018**

**SESSIONS**

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<td>10:45</td>
<td>Grand round</td>
<td>Clinical</td>
<td></td>
</tr>
</tbody>
</table>

**OUTLINE PROGRAMME**

**SUNDAY 16 SEPTEMBER, 2018**

**ERS International Congress 2018**

**RESPIRATORY INFECTIONS**

**SLEEP AND BREATHING DISORDERS**

**PULMONARY VASCULAR DISEASES**

**INDUSTRY**

**THORACIC ONCOLOGY**
### OUTLINE PROGRAMME

**SUNDAY 16 SEPTEMBER, 2018**

ERS International Congress 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.3Z1 10:45-12:45</td>
<td>Symposium</td>
<td>Hot topics. Imminent global problems in lung cancer require joint action: time for an international alliance!</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.1A 10:45-12:45</td>
<td>Symposium</td>
<td>Cournand lecture: new paradigms in extracorporeal lung assistance</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.1B 10:45-12:45</td>
<td>Symposium</td>
<td>Towards understanding and managing chronic cough</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3C 10:45-12:45</td>
<td>Symposium</td>
<td>Dyspnoea: a multidimensional and multidisciplinary approach</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3K 10:45-12:45</td>
<td>Symposium</td>
<td>Gene-environment interactions in the omics era</td>
<td>Translational</td>
</tr>
<tr>
<td>7.3N 10:45-12:45</td>
<td>Symposium</td>
<td>State of the art session: Pulmonary vascular diseases</td>
<td>Clinical</td>
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<tr>
<td>7.3Z2 10:45-12:45</td>
<td>Symposium</td>
<td>Multidisciplinary approach to ground-glass opacities</td>
<td>Clinical</td>
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<tr>
<td>7.3B 10:45-12:45</td>
<td>Oral presentation</td>
<td>Mechanisms that underlie exercise limitation in various respiratory diseases</td>
<td>Clinical</td>
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<tr>
<td>7.3M 10:45-12:45</td>
<td>Oral presentation</td>
<td>A fresh view on airway differentiation and regeneration</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3O 10:45-12:45</td>
<td>Oral presentation</td>
<td>Cystic fibrosis: microbiological aspects and new treatments</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3Q 10:45-12:45</td>
<td>Oral presentation</td>
<td>Pleural disease: diagnosis, monitoring and management</td>
<td>Clinical</td>
</tr>
<tr>
<td>Terminal 7 10:45-12:45</td>
<td>Oral presentation</td>
<td>Clinical news in idiopathic interstitial pneumonias</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3P 10:45-12:45</td>
<td>Oral presentation</td>
<td>New pharmacological strategies in airway diseases</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.2A 10:45-12:45</td>
<td>Poster discussion</td>
<td>Assessing pathophysiology in children</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.2B 10:45-12:45</td>
<td>Poster discussion</td>
<td>COPD phenotypes: α1 antitrypsin deficiency and beyond</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.2C 10:45-12:45</td>
<td>Poster discussion</td>
<td>Regenerative and anti-fibrotic approaches</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.2D 10:45-12:45</td>
<td>Poster discussion</td>
<td>Innovative therapies in asthma and COPD</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.2L 10:45-12:45</td>
<td>Poster discussion</td>
<td>Challenges in treating tuberculosis and nontuberculous mycobacteria</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3J 10:45-12:45</td>
<td>Poster discussion</td>
<td>Orphan diseases in children</td>
<td>Clinical</td>
</tr>
<tr>
<td>7.3U 11:00-13:00</td>
<td>Professional development</td>
<td>PDW3 Leading and managing change</td>
<td>€ 49</td>
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</tbody>
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### THEMATIC POSTER SESSIONS

**08:30-17:00 Poster Display**

**12:50-14:40 Poster Session (with authors and coordinators’ presence)**

<table>
<thead>
<tr>
<th>TP-01</th>
<th>12:50</th>
<th>14:40</th>
<th>Thematic poster - Physiological and biological insights in asthma</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-02</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Asthma: clinical screening tools</td>
</tr>
<tr>
<td>TP-03</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Integrated care and non-pharmacological management of COPD</td>
</tr>
<tr>
<td>TP-04</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Nutrition and metabolic syndrome in COPD</td>
</tr>
<tr>
<td>TP-05</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Cardiovascular morbidities in COPD</td>
</tr>
<tr>
<td>TP-06</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - COPD around the world</td>
</tr>
<tr>
<td>TP-07</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Pharmacological management of COPD</td>
</tr>
<tr>
<td>TP-08</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Management of bronchiectasis and large airway diseases</td>
</tr>
<tr>
<td>TP-09</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Management of chronic cough and respiratory muscle dysfunction</td>
</tr>
<tr>
<td>TP-10</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - What’s hot in rehabilitation in COPD and interstitial lung disease (ILD)?</td>
</tr>
<tr>
<td>TP-11</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Imaging of various diseases with different imaging modalities</td>
</tr>
<tr>
<td>TP-12</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Linear and radial EBUS and peripheral nodules</td>
</tr>
<tr>
<td>TP-13</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Pleural interventions</td>
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<tr>
<td>TP-14</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Primary care management of COPD</td>
</tr>
<tr>
<td>TP-15</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Functional genomics and COPD: new challenges</td>
</tr>
<tr>
<td>TP-16</td>
<td>12:50</td>
<td>14:40</td>
<td>Thematic poster - Studying novel biomarkers in asthma and COPD</td>
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</tbody>
</table>
TP-17 12:50 14:40 Thematic poster - Identification of therapeutic targets for asthma
TP-18 12:50 14:40 Thematic poster - Pulmonary fibrosis: from models to patients
TP-19 12:50 14:40 Thematic poster - Pulmonary drug delivery: inhaler use, devices and technologies
TP-20 12:50 14:40 Thematic poster - New developments in the treatment of asthma
TP-21 12:50 14:40 Thematic poster - Basic pharmacology
TP-22 12:50 14:40 Thematic poster - Biomarkers for evaluating COPD
TP-23 12:50 14:40 Thematic poster - Biomarkers for evaluating asthma
TP-24 12:50 14:40 Thematic poster - Translational models of the immunopathology that underlies airway obstructive diseases
TP-25 12:50 14:40 Thematic poster - Role of IgE and interleukin (IL)-5 in Th2-cell signatures
TP-26 12:50 14:40 Thematic poster - Epidemiology of asthma and allergy: prevalence, incidence and risk factors
TP-27 12:50 14:40 Thematic poster - Epidemiology of COPD: from exacerbations and comorbidities to asthma-COPD overlap syndrome (ACOS)
TP-28 12:50 14:40 Thematic poster - Occupational and environmental lung diseases: mechanisms, biomarkers and causation
TP-29 12:50 14:40 Thematic poster - Occupational and environmental lung diseases: influence on the airway and interstitium
TP-30 12:50 14:40 Thematic poster - Tobacco use and cessation interventions in patients with respiratory, cardiovascular and mental health problems and other populations
TP-31 12:50 14:40 Thematic poster - Effect of tobacco use on health
TP-32 12:50 14:40 Thematic poster - Role of omics in population studies
TP-33 12:50 14:40 Thematic poster - The bad and the ugly in paediatric asthma: comorbidities and exacerbations
TP-34 12:50 14:40 Thematic poster - Paediatric asthma: new mechanisms and tools
TP-35 12:50 14:40 Thematic poster - Cystic fibrosis in adults: current research
TP-36 12:50 14:40 Thematic poster - Clinical problems in paediatric pulmonology
TP-37 12:50 14:40 Thematic poster - Paediatric bronchology
TP-38 12:50 14:40 Thematic poster - Molecular and cellular determinants of the developing lung
TP-39 12:50 14:40 Thematic poster - Respiratory physiology and measurements
TP-40 12:50 14:40 Thematic poster - Acutely hospitalised patients: physiotherapy interventions and assessment methods
TP-41 12:50 14:40 Thematic poster - Chronic lung disease: effects of rehabilitation interventions on functional outcomes in patients
TP-42 12:50 14:40 Thematic poster - Chronic respiratory disease: respiratory muscle function, breathing exercises and airflow clearance techniques
TP-43 12:50 14:40 Thematic poster - Chronic respiratory disease: determinants of physical activity in patients
TP-44 12:50 14:40 Thematic poster - Chronic respiratory disease: effects of rehabilitation interventions in patients
TP-45 12:50 14:40 Thematic poster - Contemporary respiratory care: symptoms, the role of the nurse and the organisation of care
<table>
<thead>
<tr>
<th>7.3Z2</th>
<th>14:45 - 16:45</th>
<th>Hot topic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cleaning agent exposures at work: are they really harmful to lung health?</td>
</tr>
<tr>
<td>7.1A</td>
<td>14:45 - 16:45</td>
<td>Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Current and evolving tests in lung function: pro/con debate</td>
</tr>
<tr>
<td>7.1B</td>
<td>14:45 - 16:45</td>
<td>Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air pollution and transplantation: near to one’s heart and lungs!</td>
</tr>
<tr>
<td>7.3C</td>
<td>14:45 - 16:45</td>
<td>Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interstitial lung disease: an interdisciplinary approach</td>
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<tr>
<td>7.3K</td>
<td>14:45 - 16:45</td>
<td>Symposium</td>
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<tr>
<td></td>
<td></td>
<td>Mitochondrial dysfunction as a driver of lung disease</td>
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<tr>
<td>7.3N</td>
<td>14:45 - 16:45</td>
<td>Symposium</td>
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<tr>
<td></td>
<td></td>
<td>State of the art session: Sleep and breathing disorders</td>
</tr>
<tr>
<td>7.3Z1</td>
<td>14:45 - 16:45</td>
<td>Symposium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Management of pleural infection in 2018</td>
</tr>
<tr>
<td>7.3A</td>
<td>14:45 - 16:45</td>
<td>Year in review</td>
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<tr>
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<td>Paediatric Year in Review</td>
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<tr>
<td>7.3B</td>
<td>14:45 - 16:45</td>
<td>Oral presentation</td>
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<tr>
<td></td>
<td></td>
<td>Best abstracts in pulmonary rehabilitation and chronic care</td>
</tr>
<tr>
<td>7.3M</td>
<td>14:45 - 16:45</td>
<td>Oral presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Educational tools to improve your practice</td>
</tr>
<tr>
<td>7.3O</td>
<td>14:45 - 16:45</td>
<td>Oral presentation</td>
</tr>
<tr>
<td></td>
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<td>Novel immunology-based therapies in asthma and COPD</td>
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<tr>
<td>7.3P</td>
<td>14:45 - 16:45</td>
<td>Oral presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical trials in COPD: new results</td>
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<tr>
<td>7.3Q</td>
<td>14:45 - 16:45</td>
<td>Oral presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On the right path: understanding and improving the function of an overloaded right heart ventricle</td>
</tr>
<tr>
<td>Terminal 7</td>
<td>14:45 - 16:45</td>
<td>Oral presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Variant forms of asthma</td>
</tr>
<tr>
<td>7.2A</td>
<td>14:45 - 16:45</td>
<td>Poster discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asthma management</td>
</tr>
<tr>
<td>7.2B</td>
<td>14:45 - 16:45</td>
<td>Poster discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Respiratory muscle function, postural control and breathing exercises in chronic respiratory conditions</td>
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<tr>
<td>7.2C</td>
<td>14:45 - 16:45</td>
<td>Poster discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Systematic reviews on the health effects of emerging tobacco products and electronic nicotine delivery systems (ENDS)</td>
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<tr>
<td>7.2D</td>
<td>14:45 - 16:45</td>
<td>Poster discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thoracic surgery, pleural effusions and other general thoracic surgery</td>
</tr>
<tr>
<td>7.3J</td>
<td>14:45 - 16:45</td>
<td>Poster discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lung cancer: from early diagnosis to modern monitoring strategies</td>
</tr>
<tr>
<td>7.3L</td>
<td>14:45 - 16:45</td>
<td>Poster discussion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New insights in the management of chronic respiratory failure</td>
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</table>

See from page xx for the Industry Sponsored Sessions
## Detailed Programme
### Monday 17 September 2018

<table>
<thead>
<tr>
<th>Room</th>
<th>Time</th>
<th>Session</th>
<th>Tag</th>
<th>Price</th>
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<tbody>
<tr>
<td>7.3P</td>
<td>07:00</td>
<td>Challenging clinical cases CC3</td>
<td>Clinical</td>
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<tr>
<td>7.2D</td>
<td>07:00</td>
<td>Challenging clinical cases CC4 Tuberculosis</td>
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<td>7.3J</td>
<td>07:00</td>
<td>Challenging clinical cases CC5 Pulmonary vasculitis: the great chameleon</td>
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<tr>
<td>7.3T</td>
<td>08:00</td>
<td>Skills workshop SW7 Cardiopulmonary exercise test interpretation - tips and pitfalls</td>
<td>Clinical</td>
<td>€122</td>
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<tr>
<td>7.3V</td>
<td>08:00</td>
<td>Skills workshop SW10 Thoracic ultrasound</td>
<td>Clinical</td>
<td>€122</td>
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<tr>
<td>7.3A</td>
<td>08:30</td>
<td>Grand round Paediatric Grand Round</td>
<td>Clinical</td>
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<tr>
<td>7.3Z2</td>
<td>08:30</td>
<td>Hot topics Pulmonary embolism: what we need to know</td>
<td>Clinical</td>
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<tr>
<td>7.1B</td>
<td>08:30</td>
<td>Symposium New trends in the management of difficult-to-wean patients</td>
<td>Clinical</td>
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<tr>
<td>7.3C</td>
<td>08:30</td>
<td>Symposium Sleep apnoea: is it time for new therapies?</td>
<td>Clinical</td>
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<tr>
<td>7.3K</td>
<td>08:30</td>
<td>Symposium Cross-talk in the lung microenvironment: implications for chronic lung disease</td>
<td>Basic science</td>
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<tr>
<td>7.3N</td>
<td>08:30</td>
<td>Symposium State of the art session: Thoracic oncology</td>
<td>Translational</td>
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<tr>
<td>7.3Z1</td>
<td>08:30</td>
<td>Symposium Rare lung diseases</td>
<td>Clinical</td>
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<tr>
<td>7.1A</td>
<td>08:30</td>
<td>Year in review Therapeutic breakthroughs Year in Review</td>
<td>Clinical</td>
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<tr>
<td>7.3B</td>
<td>08:30</td>
<td>Oral presentation New modalities in asthma treatment</td>
<td>Clinical</td>
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<tr>
<td>7.3M</td>
<td>08:30</td>
<td>Oral presentation Novel drug targets for asthma and COPD</td>
<td>Clinical</td>
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<tr>
<td>7.3O</td>
<td>08:30</td>
<td>Oral presentation Occupational and environmental lung diseases: from early influences and novel exposures to preventative approaches</td>
<td>Clinical</td>
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<tr>
<td>7.3Q</td>
<td>08:30</td>
<td>Oral presentation COPD and chronic respiratory disease: from misclassification to radiological findings</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>7.3P</td>
<td>08:30</td>
<td>Oral presentation New developments in tuberculosis</td>
<td>Clinical</td>
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</tr>
<tr>
<td>Terminal 7</td>
<td>08:30</td>
<td>Oral presentation Determinants of physical activity behaviour in patients with COPD and the physiotherapist as a physical activity coach</td>
<td>Clinical</td>
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</tr>
<tr>
<td>7.2A</td>
<td>08:30</td>
<td>Poster discussion Integrating pharmacological and non-pharmacological management in COPD: are we there yet?</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>7.2B</td>
<td>08:30</td>
<td>Poster discussion Clinical determinants and biomarkers of COPD</td>
<td>Clinical</td>
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</tr>
<tr>
<td>7.2C</td>
<td>08:30</td>
<td>Poster discussion Improving the outcomes of community-acquired pneumonia</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>7.2D</td>
<td>08:30</td>
<td>Poster discussion Let’s interact and discuss the hot topics in pulmonary rehabilitation</td>
<td>Clinical</td>
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<tr>
<td>7.3J</td>
<td>08:30</td>
<td>Poster discussion The many facets of respiratory nursing</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>7.3L</td>
<td>08:30</td>
<td>Poster discussion Pleural diseases and pneumonia: what’s new?</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>7.3T</td>
<td>10:40</td>
<td>Skills workshop SW8 Cardiopulmonary exercise test interpretation - tips and pitfalls</td>
<td>Clinical</td>
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<tr>
<td>7.3V</td>
<td>10:40</td>
<td>Skills workshop SW11 Thoracic ultrasound</td>
<td>Clinical</td>
<td>€122</td>
</tr>
</tbody>
</table>
### Detailed Programme

**Monday 17 September, 2018**

#### 08:30-17:00 Poster Display

**12:50-14:40 Poster Session** [with authors and coordinators’ presence]

| TP-01 | 12:50 | 14:40 | Thematic poster - Critically ill patients: prognostic factors and biomarkers |
| TP-02 | 12:50 | 14:40 | Thematic poster - Preclinical and clinical studies of critical illness |
| TP-03 | 12:50 | 14:40 | Thematic poster - Muscles and diaphragm, and quality improvement |
| TP-04 | 12:50 | 14:40 | Thematic poster - Non-invasive ventilation for acute respiratory failure |
| TP-05 | 12:50 | 14:40 | Thematic poster - Non-invasive ventilation in chronic respiratory failure |
| TP-06 | 12:50 | 14:40 | Thematic poster - New tools for managing respiratory failure |
| TP-07 | 12:50 | 14:40 | Thematic poster - New methods and concepts in tests of lung and respiratory muscle function |
| TP-08 | 12:50 | 14:40 | Thematic poster - The value of lung function testing in various pathophysiological conditions |
| TP-09 | 12:50 | 14:40 | Thematic poster - Cardiopulmonary exercise testing in COPD and cardiovascular diseases |

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**7.1B** 10:45-12:45 **Hot topics**

**Clinical**

**Preventing asthma and COPD exacerbations by increasing the inhaled glucocorticoid dose**

**7.1A** 10:45-12:45 **Symposium**

**Clinical**

**Infectious agents and childhood asthma**

**7.3C** 10:45-12:45 **Symposium**

**Clinical**

**Integrated care for patients with pulmonary vascular disease, lung diseases and heart failure**

**7.3K** 10:45-12:45 **Symposium**

**Basic science**

**Cell-matrix interactions in lung disease and regeneration**

**7.3N** 10:45-12:45 **Symposium**

**Clinical**

**State of the art session: Respiratory infections**

**7.3Z1** 10:45-12:45 **Symposium**

**Clinical**

**Respiratory medicine meets hematology**

**7.3A** 10:45-12:45 **Year in review**

**Clinical**

**Year in Review**

**7.3B** 10:45-12:45 **Oral presentation**

**Clinical**

**Intercellular communication in tissue remodelling**

**7.3Z2** 10:45-12:45 **Oral presentation**

**Clinical**

**COPD: from LABA/ICS to LABA/LAMA/ICS**

**7.3M** 10:45-12:45 **Oral presentation**

**Clinical**

**Respiratory muscles and lung function: from healthy subjects to patients**

**7.3O** 10:45-12:45 **Oral presentation**

**Clinical**

**Granulomatous disorders: epidemiology, genotype and phenotype**

**7.3Q** 10:45-12:45 **Oral presentation**

**Clinical**

**New predictors of morbidity and mortality in COPD**

**7.3P** 10:45-12:45 **Oral presentation**

**Clinical**

**Interventional pulmonology highlights in 2018: latest innovations**

**Terminal 7** 10:45-12:45 **Oral presentation**

**Clinical**

**Multimics studies in epidemiology: what can they tell us?**

**7.2A** 10:45-12:45 **Poster discussion**

**Clinical**

**The world of idiopathic pulmonary fibrosis (IPF): global registries**

**7.2B** 10:45-12:45 **Poster discussion**

**Clinical**

**Lung cancer: personalised medicine**

**7.2C** 10:45-12:45 **Poster discussion**

**Clinical**

**New insights in rare diffuse parenchymal lung diseases (DPLDs) in adults and children**

**7.2D** 10:45-12:45 **Poster discussion**

**Clinical**

**New diagnostic tools for sleep and breathing and healthcare provision options**

**7.3J** 10:45-12:45 **Poster discussion**

**Clinical**

**Respiratory epidemiology: from COPD to factors that associate with lung function and infections**

**7.3L** 10:45-12:45 **Poster discussion**

**Clinical**

**New kids on the block: novel molecular pathways and therapeutic targets in chronic lung diseases**

**7.3U** 11:00-13:00 **Professional development**

**Clinical**

**PDW5 Teamability: become an effective team leader and member**

**€ 49**
MONDAY 17 SEPTEMBER, 2018

**OUTLINE PROGRAMME**

**SUNDAY 16 SEPTEMBER, 2018**

ERS International Congress 2018

**DETAILED PROGRAMME**

**MONDAY 17 SEPTEMBER, 2018**

<table>
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<th>SESSION</th>
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<tr>
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<td>Thematic poster - New methods and concepts in exercise testing</td>
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<td>Thematic poster - COPD, asthma and tuberculosis: benefits related to therapy costs</td>
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**ROOM** 7.3A 7.3Q 7.3B 7.3I 7.3F 7.2D 7.3E

**TIME** 13:00 14:30 13:00 14:15 13:00 14:15 13:00 14:00 13:00 14:00 13:00 14:00

**SESSION** Lunchtime session New biologics for asthma: which patients, which agents, which results, at what cost? Lungs on fire Airway Diseases & Respiratory Infections Lungs on fire Paediatric Respiratory Diseases Meet the expert ME5 Lung cancer screening Meet the expert ME6 Control of breathing - hypoventilation during sleep, exercise and dyspnoea Meet the expert ME7 Monitoring of home mechanical ventilation in neuromuscular disorders Meet the expert ME8 Diagnosing bronchiectasis and cystic fibrosis

**TAG** Clinical Clinical Clinical Clinical Clinical Translational Clinical Clinical

**PRICE** € 122 € 122 € 122 € 122
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<td>Patient forum</td>
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<td>14:30</td>
<td>Occupational lung disease – professional and patient perspectives</td>
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<td>7.3U</td>
<td>13:15</td>
<td>Meet the expert</td>
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<td>Bronchiolitis obliterans syndrome in immunodepressed patients</td>
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<td>Professional development</td>
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<td>Supporting patients with behaviour change strategies</td>
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<td>Skills workshop</td>
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<td>SW9 Cardiopulmonary exercise test interpretation - tips and pitfalls</td>
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<td>Idiopathic pulmonary fibrosis diagnosis: new guidelines</td>
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<td>Chronic pulmonary aspergillosis: from guidelines to real-life</td>
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<td>Roles of innate lymphoid cells in asthma</td>
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<td>Advances in community-acquired pneumonia management</td>
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<td>The best of the European Respiratory Journal in 2018</td>
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<td>Imaging chronic lung diseases: moving from structure to function</td>
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<td>Basic science</td>
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<td>Microbiomes in respiratory disease</td>
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<td>New methods for diagnosing and treating lung diseases</td>
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<td>Ventilation and lung imaging in critically ill patients</td>
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<td>Lung cancer: new aspects in diagnosis and management</td>
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<td>Pathophysiological aspects of sleep-disordered breathing: intermittent</td>
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<td>Recent insights in childhood asthma and wheezing</td>
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<td>Lung transplant science: from primary graft to chronic allograft dysfunction</td>
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<td>Exercise is medicine: testing and treating patients with some effort</td>
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<td>Innovations in equipment and their application</td>
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<td>Pulmonary hypertension: right ventricle function, haemodynamics and</td>
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See from page xx for the Industry Sponsored Sessions
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<td>Microorganisms and lung ecology: living in peace with bugs</td>
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<td>New ideas about respiratory and sleep physiology in children</td>
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<td>Acute pulmonary embolism: from diagnosis to treatment</td>
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<td>Novel insights in the basic and translational research on idiopathic</td>
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<td>SW17 Essential skills for the intensive care unit</td>
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### TUESDAY 18 SEPTEMBER, 2018

**ERS International Congress 2018**

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<td>Recent advances in respiratory disorders with oropharyngeal dysphagia</td>
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<td>CTD-ILD and hypersensitivity pneumonitis: risk stratification and management</td>
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<td>How far are we in terms of predicting mortality and exacerbations in COPD?</td>
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<td>Current practices in and attitudes to screening for tuberculosis, and a discussion about genetic diversity</td>
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<td>Telehealth, home rehabilitation and specific adaptations to exercise interventions in different settings</td>
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**THEMATIC POSTER SESSIONS**

**08:30–17:00 Poster Display**

**12:50–14:40 Poster Session (with authors and coordinators’ presence)**

- **TP-01** 12:50 14:40 Thematic poster - Tests and trends in asthma
- **TP-02** 12:50 14:40 Thematic poster - Asthma and drugs
- **TP-03** 12:50 14:40 Thematic poster - Clinical markers of asthma
- **TP-04** 12:50 14:40 Thematic poster - Patient-reported outcomes and scores in COPD
- **TP-05** 12:50 14:40 Thematic poster - COPD and extrapulmonary comorbidities
- **TP-06** 12:50 14:40 Thematic poster - Functional assessment of COPD
- **TP-07** 12:50 14:40 Thematic poster - Biomarkers of COPD
- **TP-08** 12:50 14:40 Thematic poster - COPD exacerbations and bronchiectasis
- **TP-09** 12:50 14:40 Thematic poster - Sarcoidosis, interstitial lung diseases and various clinical problems
- **TP-10** 12:50 14:40 Thematic poster - Pulmonary rehabilitation: exercise training, body composition, physical activity and other aspects
- **TP-11** 12:50 14:40 Thematic poster - Aspects of pulmonary rehabilitation and chronic care
- **TP-12** 12:50 14:40 Thematic poster - Use of stents for tracheal stenosis
- **TP-13** 12:50 14:40 Thematic poster - Bronchoscopy and transthoracic ultrasound
**OUTLINE PROGRAMME**

**TUESDAY 18 SEPTEMBER, 2018**

ERS International Congress 2018

**RESPIRATORY INFECTIONS**

**SLEEP AND BREATHING DISORDERS**

**PULMONARY VASCULAR DISEASES**

**INDUSTRY**

**THORACIC ONCOLOGY**

**AIRWAY DISEASES**

**INTERSTITIAL LUNG DISEASE**

**PAEDIATRIC RESPIRATORY DISEASES**

**TP-14** 12:50 14:40  Thematic poster - Primary care management of asthma

**TP-15** 12:50 14:40  Thematic poster - Genetics in chronic pulmonary diseases

**TP-16** 12:50 14:40  Thematic poster - COPD: immune regulation and therapeutic targets

**TP-17** 12:50 14:40  Thematic poster - COPD: novel pathological mechanisms in the airway epithelium

**TP-18** 12:50 14:40  Thematic poster - Role of microbial exposure and inflammation in lung injury

**TP-19** 12:50 14:40  Thematic poster - Triggers of acute lung injury: mechanical ventilation and oxygen levels

**TP-20** 12:50 14:40  Thematic poster - Cardiovascular and metabolic consequences of sleep-disordered breathing

**TP-21** 12:50 14:40  Thematic poster - Treatments that can serve as an alternative to positive airway pressure (PAP)

**TP-22** 12:50 14:40  Thematic poster - Sleep and breathing control: phenotypes

**TP-23** 12:50 14:40  Thematic poster - COPD management

**TP-24** 12:50 14:40  Thematic poster - Studies on the mechanisms underlying airway disease

**TP-25** 12:50 14:40  Thematic poster - Airway disease: recent discoveries

**TP-26** 12:50 14:40  Thematic poster - Clinical and functional monitoring in airway disease

**TP-27** 12:50 14:40  Thematic poster - Epidemiology of asthma, COPD and factors that associate with lung function

**TP-28** 12:50 14:40  Thematic poster - Respiratory epidemiology: from infectious diseases to lung cancer

**TP-29** 12:50 14:40  Thematic poster - Occupational and environmental lung diseases: inhaled air quality and health effects

**TP-30** 12:50 14:40  Thematic poster - Epidemiology of the use of traditional and emerging tobacco products and e-cigarettes

**TP-31** 12:50 14:40  Thematic poster - Tobacco use, attitudes and cessation training among healthcare professionals and prevention programmes

**TP-32** 12:50 14:40  Thematic poster - Improvements in the assessment of paediatric physiology

**TP-33** 12:50 14:40  Thematic poster - Paediatric asthma: new insights in its prevalence, treatment and treatment failure

**TP-34** 12:50 14:40  Thematic poster - Cystic fibrosis in paediatric patients: current research

**TP-35** 12:50 14:40  Thematic poster - Paediatric respiratory infections: mechanistic insights and clinical outcomes

**TP-36** 12:50 14:40  Thematic poster - Paediatric respiratory infections: mechanistic insights and clinical outcomes

**TP-37** 12:50 14:40  Thematic poster - Neonatology and paediatric intensive care

**TP-38** 12:50 14:40  Thematic poster - Insights in primary ciliary dyskinesia, asthma and lung function testing

**TP-39** 12:50 14:40  Thematic poster - Clinical challenges in respiratory infection

**TP-40** 12:50 14:40  Thematic poster - Difficult-to-treat respiratory infections

**TP-41** 12:50 14:40  Thematic poster - The immune response to tuberculosis: development of biomarkers and diagnostic tools

**TP-42** 12:50 14:40  Thematic poster - Drug-resistant tuberculosis and the sequelae of pulmonary tuberculosis

**TP-43** 12:50 14:40  Thematic poster - Diagnosis of tuberculosis

**TP-44** 12:50 14:40  Thematic poster - Management of idiopathic interstitial pneumonias: established and new treatments

**TP-45** 12:50 14:40  Thematic poster - Back to basics and translational research in idiopathic interstitial pneumonias
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See from page xx for the Industry Sponsored Sessions
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<td>Physiotherapy care for patients with acute and chronic respiratory conditions</td>
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<td>Upper airways morphology and diagnostics, and the challenges associated with mandibular advancement</td>
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<tr>
<td>10:45</td>
<td>7.3Q</td>
<td>Oral presentation: Progress in basic and translational research on idiopathic interstitial pneumonias</td>
<td>Oral</td>
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<tr>
<td>10:45</td>
<td>7.3P</td>
<td>Oral presentation: Eosinophils in airway disease</td>
<td>Oral</td>
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<tr>
<td>10:45</td>
<td>7.3Z2</td>
<td>Oral presentation: New insights in the signalling pathways that underlie IPF pathophysiology</td>
<td>Oral</td>
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<tr>
<td>10:45</td>
<td>Terminal 7</td>
<td>Oral presentation: Hot topics in non-invasive ventilation</td>
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<tr>
<td>10:45</td>
<td>7.2A</td>
<td>Poster discussion: Exploring the importance of daily physical activity in chronic respiratory disease</td>
<td>Poster</td>
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<tr>
<td>10:45</td>
<td>7.2B</td>
<td>Poster discussion: New developments in paediatric asthma</td>
<td>Poster</td>
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<tr>
<td>10:45</td>
<td>7.2C</td>
<td>Poster discussion: New therapies for respiratory infections: experimental and translational studies</td>
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<tr>
<td>10:45</td>
<td>7.2D</td>
<td>Poster discussion: Biomarkers of COPD and asthma−COPD overlap syndrome (ACOS)</td>
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<tr>
<td>10:45</td>
<td>7.3J</td>
<td>Poster discussion: Determinants and monitoring of asthma control</td>
<td>Poster</td>
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<tr>
<td>10:45</td>
<td>7.3L</td>
<td>Poster discussion: Endoscopic lung volume reduction</td>
<td>Poster</td>
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ERS ASSEMBLIES AND GROUPS MEMBERS’ MEETINGS

### SUNDAY 16 SEPTEMBER 2018

<table>
<thead>
<tr>
<th>Assembly Code</th>
<th>Time</th>
<th>Meeting Type</th>
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<tbody>
<tr>
<td>7.3K</td>
<td>13:00</td>
<td>Assembly members’ meeting</td>
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<tr>
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<td></td>
<td>Assembly 2 Respiratory intensive care</td>
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<td>7.3B</td>
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<tr>
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<td>Assembly 4 Clinical physiology and sleep</td>
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<td>Assembly 8 Thoracic surgery and transplantation</td>
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<td>7.1A</td>
<td>17:00</td>
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<td>Assembly 9 Allied respiratory professionals</td>
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<td>Assembly 10 Respiratory infections</td>
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<td>7.3P</td>
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<td>Assembly 11 Thoracic oncology</td>
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<td>Assembly 12 Interstitial lung diseases</td>
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<td>Assembly 13 Pulmonary vascular diseases</td>
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### MONDAY 17 SEPTEMBER 2018

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<tr>
<th>Assembly Code</th>
<th>Time</th>
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<tr>
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<td>Assembly members’ meeting</td>
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<tr>
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<td>Assembly 1 Clinical</td>
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<td>7.3P</td>
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<tr>
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<td>Assembly 3 Basic and translational sciences</td>
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<td>13:00</td>
<td>Assembly members’ meeting</td>
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<td></td>
<td>Assembly 5 Airway diseases</td>
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<td>13:00</td>
<td>Assembly members’ meeting</td>
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<td>Assembly 6 Epidemiology and Environment</td>
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<td>7.3M</td>
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<td>Assembly members’ meeting</td>
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<td>Assembly 7 Paediatrics</td>
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<td>7.3K</td>
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<tr>
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<td>Group 9.2 Physiotherapists</td>
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INDUSTRY SPONSORED SESSIONS

DISCLAIMER: EVENING SYMPOSIA, EVENING MINI SYMPOSIA, EARLY MORNING SYMPOSIA, EVENING EXPERT FORUM AND PRACTICAL WORKSHOPS ARE ORGANISED BY INDUSTRY. YOU CANNOT CLAIM CME CREDITS FOR ATTENDING THESE SESSIONS.
### Sunday 16 September 2018

<table>
<thead>
<tr>
<th>Room</th>
<th>Time</th>
<th>Session</th>
<th>Organised By</th>
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<tbody>
<tr>
<td>7.2A</td>
<td>13:15</td>
<td>Industry practical workshop: Reading between the guidelines: the use of FeNO measurement in asthma management today</td>
<td>Circassia Ltd</td>
</tr>
<tr>
<td>7.3L</td>
<td>13:15</td>
<td>Industry practical workshop: Advanced Monitoring in a Next Generation Ventilatory</td>
<td>Philips</td>
</tr>
<tr>
<td>7.3W</td>
<td>13:15</td>
<td>Industry practical workshop: Clinical Usefulness of Diffusion Capacity - DLCO.</td>
<td>ndd Medizintechnik AG</td>
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<tr>
<td>7.3X</td>
<td>13:15</td>
<td>Industry practical workshop: Interventional Pulmonologist, the toolkit you need</td>
<td>Boston Scientific</td>
</tr>
<tr>
<td>7.3Y</td>
<td>13:15</td>
<td>Industry practical workshop: Flexible and Rigid Bronchoscopy in Adults</td>
<td>Karl Storz SE &amp; Co. KG</td>
</tr>
<tr>
<td>Terminal 7</td>
<td>13:15</td>
<td>Industry practical workshop: Latest progress in mouthpiece ventilation in life support</td>
<td>ResMed</td>
</tr>
<tr>
<td>7.3C</td>
<td>17:15</td>
<td>Industry evening symposium: Update on Severe Eosinophilic Asthma: Decision Making in Clinical Practice</td>
<td>AstraZeneca PLC</td>
</tr>
<tr>
<td>7.3K</td>
<td>17:15</td>
<td>Industry evening symposium: A new breath-triggered inhaler for asthma: delivering innovation through design</td>
<td>Mundipharma International Limited</td>
</tr>
<tr>
<td>7.3L</td>
<td>17:15</td>
<td>Industry evening symposium: Discovering asthma paradigms in an evolving landscape: Experts Perspectives</td>
<td>Sanofi Genzyme and Regeneron</td>
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<tr>
<td>7.3M</td>
<td>17:15</td>
<td>Industry evening symposium: COPD Patients and Doctors: Travelling in the same direction?</td>
<td>Menarini group</td>
</tr>
<tr>
<td>7.3O</td>
<td>17:15</td>
<td>Industry evening symposium: Getting to the ‘heart’ of COPD management: time for personalization?</td>
<td>Novartis Pharma AG</td>
</tr>
<tr>
<td>7.3P</td>
<td>17:15</td>
<td>Industry evening symposium: Achieve more – Taking an evidence-based approach to PAH management</td>
<td>Actelion Pharmaceuticals Ltd</td>
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<tr>
<td>7.3Q</td>
<td>17:15</td>
<td>Industry evening symposium: Effectiveness in every day clinical practice: New data from the Salford Lung Study in asthma</td>
<td>GSK</td>
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<tr>
<td>7.3Z1</td>
<td>17:15</td>
<td>Industry evening symposium: Bridging the gap between research and clinical practice – where next in IPF?</td>
<td>F. Hoffmann-La Roche Ltd</td>
</tr>
<tr>
<td>7.3Z2</td>
<td>17:15</td>
<td>Industry evening symposium: Managing multiple outcomes in COPD: Blending data with patient priorities</td>
<td>Boehringer Ingelheim International GmbH</td>
</tr>
<tr>
<td>7.3J</td>
<td>17:30</td>
<td>Industry evening mini symposium: Advances in Genetic COPD: Implementation of AATD Research Findings in Clinical Practice</td>
<td>Grifols</td>
</tr>
<tr>
<td>7.3W</td>
<td>17:30</td>
<td>Industry evening mini symposium: Updates and current challenges in difficult-to-treat pneumonia</td>
<td>Pfizer</td>
</tr>
<tr>
<td>7.3X</td>
<td>17:30</td>
<td>Industry evening mini symposium: Discover New Dimensions in Interventional Pulmonology</td>
<td>Olympus Europa SE &amp; CO KG</td>
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## INDUSTRY SPONSORED SESSIONS

### MONDAY 17 SEPTEMBER 2018

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<thead>
<tr>
<th>ROOM</th>
<th>TIME</th>
<th>SESSION</th>
<th>ORGANISED BY</th>
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<tbody>
<tr>
<td>7.2B</td>
<td>07:00</td>
<td>Industry early morning symposium&lt;br&gt;<strong>Type 2 Inflammation and the Evolving Profile of Uncontrolled Persistent Asthma</strong></td>
<td>Sanofi Genzyme and Regeneron</td>
</tr>
<tr>
<td>7.2C</td>
<td>07:00</td>
<td>Industry early morning symposium&lt;br&gt;<strong>6 Month Results of Safety and Feasibility Study in Chronic Bronchitis Patients</strong></td>
<td>CSA Medical</td>
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<tr>
<td>7.3R</td>
<td>07:00</td>
<td>Industry early morning symposium&lt;br&gt;<strong>Patients as partners in drug development: From rhetoric into reality in a connected world</strong></td>
<td>GSK</td>
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<tr>
<td>7.2A</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>MRD (Mandibular Repositioning Device) : a proven alternative to CPAP for OSA patients</strong></td>
<td>ResMed</td>
</tr>
<tr>
<td>7.2C</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>Transcutaneous PCO2 monitoring in clinical practice</strong></td>
<td>SenTec AG</td>
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<tr>
<td>7.3L</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>Expiratory Flow Limitation - What is it and Why it Matters</strong></td>
<td>Philips</td>
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<tr>
<td>7.3W</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>Experience New Dimensions in Interventional Pulmonology</strong></td>
<td>Olympus Europa SE &amp; CO KG</td>
</tr>
<tr>
<td>7.3X</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>Optimal Patient Selection for Successful Treatment of Severe Lung Embolysma</strong></td>
<td>Pulmonx International Sàrl</td>
</tr>
<tr>
<td>7.3Y</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>Endobronchial and Pleural Ultrasound Workshop</strong></td>
<td>FUJIFILM Sonosite</td>
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<tr>
<td>Terminal 7</td>
<td>13:15</td>
<td><strong>Industry practical workshop</strong>&lt;br&gt;<strong>Interactive session on home NIV for COPD: how can technology support better care and care management.</strong></td>
<td>ResMed</td>
</tr>
<tr>
<td>7.3C</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong>&lt;br&gt;<strong>Aiming for Optimal Asthma Care: A Metamorphosis in Asthma Care?</strong></td>
<td>AstraZeneca PLC</td>
</tr>
<tr>
<td>7.3L</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong>&lt;br&gt;<strong>The asthma patient journey: what more can be done?</strong></td>
<td>Novartis Pharma AG</td>
</tr>
<tr>
<td>7.3M</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong>&lt;br&gt;<strong>Early management of asthma to prevent adverse outcomes – different management strategies according to age group</strong></td>
<td>Boehringer Ingelheim International GmbH</td>
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<tr>
<td>7.3N</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong>&lt;br&gt;<strong>Current COPD treatment paradigm and evidence: What are the unanswered questions and the clinical implications?</strong></td>
<td>GSK</td>
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<tr>
<td>7.3Q</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong>&lt;br&gt;<strong>Severe Asthma in FOCUS: How can we Reduce OCS Use</strong></td>
<td>AstraZeneca</td>
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<tr>
<td>7.3Z2</td>
<td>17:15</td>
<td><strong>Industry evening symposium</strong>&lt;br&gt;<strong>Fibrosing Interstitial Lung Diseases: Translating Recent Learnings Into Future Directions</strong></td>
<td>Boehringer Ingelheim International GmbH</td>
</tr>
<tr>
<td>7.2A</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong>&lt;br&gt;<strong>Targeted Lung Denervation (TLD)- A One-Time Treatment for COPD and Severe Asthma</strong></td>
<td>Nuvaira</td>
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<tr>
<td>7.2B</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong>&lt;br&gt;<strong>Back to basics in asthma and COPD: optimizing the patient journey</strong></td>
<td>Orion Pharma and Menarini group</td>
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<tr>
<td>7.2C</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong>&lt;br&gt;<strong>The Rhinitis-Asthma link in childhood: pathogenesis, old and new therapeutic solutions</strong></td>
<td>OMRON Healthcare Europe B.V.</td>
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<tr>
<td>7.2D</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong>&lt;br&gt;<strong>Bronchiectasis: from Guidelines to Clinical Practice</strong></td>
<td>Grifols</td>
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<tr>
<td>7.3J</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong>&lt;br&gt;<strong>How important is early action in Pulmonary Arterial Hypertension?</strong></td>
<td>GSK</td>
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<td>7.3R</td>
<td>17:30</td>
<td><strong>Industry evening mini symposium</strong>&lt;br&gt;<strong>Focusing on the patient – future prospects in Alpha 1 management</strong></td>
<td>CSL Behring</td>
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## TUESDAY 18 SEPTEMBER 2018

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>7.3M</td>
<td>13:00</td>
<td>Joint ERS - Industry Lunchtime session</td>
<td>Boehringer Ingelheim, GSK, Mundipharma, Teva, Novartis</td>
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<tr>
<td>7.2A</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>Medtronic</td>
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<td>7.2C</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>Physio Assist</td>
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<tr>
<td>7.3L</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>Fisher &amp; Paykel Healthcare</td>
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<td>7.3W</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>FUJIFILM SonoSite</td>
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<td>7.3X</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>Erbe Elektromedizin GmbH</td>
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<tr>
<td>7.3Y</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>KARL STORZ SE &amp; Co. KG</td>
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<tr>
<td>Terminal 7</td>
<td>13:15</td>
<td>Industry practical workshop</td>
<td>ResMed</td>
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<td>7.3K</td>
<td>17:15</td>
<td>Industry evening symposium</td>
<td>Chiesi Farmaceutici S.p.A</td>
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<td>7.3M</td>
<td>17:15</td>
<td>Industry evening symposium</td>
<td>GSK</td>
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<td>7.3P</td>
<td>17:15</td>
<td>Industry evening symposium</td>
<td>Boehringer Ingelheim International GmbH</td>
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<tr>
<td>7.2A</td>
<td>17:30</td>
<td>Industry evening mini symposium</td>
<td>Broncus Medical</td>
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<td>7.2B</td>
<td>17:30</td>
<td>Industry evening mini symposium</td>
<td>Merck &amp; Co, Inc.</td>
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<tr>
<td>7.2D</td>
<td>17:30</td>
<td>Industry evening mini symposium</td>
<td>AstraZeneca</td>
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<tr>
<td>7.3W</td>
<td>17:30</td>
<td>Industry evening expert forum</td>
<td>Insmed</td>
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<tr>
<td>7.3X</td>
<td>17:30</td>
<td>Industry evening expert forum</td>
<td>Pfizer</td>
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PROGRAMME DETAILED
No Room  Session 2  09:30 - 10:30
Public: Press conference and opening of Healthy Lungs for Life Paris - city centre
Professional development: PDW1 Spirometry training programme: become a programme organiser

**Aims:** Access educational materials here To provide participants with the knowledge and tools to teach high quality spirometry, specifically to those participants who would like to train and certify participants for the European Spirometry Driving Licence Parts 1 and 2 within Europe.

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Lung function technologist, Nurse, General practitioner

**Chairs:** Felip Burgos Rincon (Barcelona, Spain), Brendan Cooper (Edgbaston (Birmingham), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Arrival and poster viewing: all faculty</td>
</tr>
<tr>
<td>09:30</td>
<td>Welcome and ice-break</td>
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<tr>
<td></td>
<td>Vera Habes (Utrecht, Netherlands), Odile Van Eck (Waalre, Netherlands)</td>
</tr>
<tr>
<td>10:00</td>
<td>Introduction and overview of the spirometry training programme</td>
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<td>Felip Burgos Rincon (Barcelona, Spain), Brendan Cooper (Edgbaston (Birmingham), United Kingdom)</td>
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<tr>
<td>10:20</td>
<td>Presentation and facilitation skills</td>
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<td></td>
<td>Vera Habes (Utrecht, Netherlands), Odile Van Eck (Waalre, Netherlands)</td>
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<tr>
<td>11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:20</td>
<td>Presentation activities</td>
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<td>Vera Habes (Utrecht, Netherlands), Odile Van Eck (Waalre, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom)</td>
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<tr>
<td>12:30</td>
<td>Learning styles and overcoming resistance</td>
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<td>Vera Habes (Utrecht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Felip Burgos Rincon (Barcelona, Spain)</td>
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<tr>
<td>13:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:45</td>
<td>Organising a European spirometry training programme</td>
</tr>
<tr>
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<td>Felip Burgos Rincon (Barcelona, Spain)</td>
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<tr>
<td>14:15</td>
<td>Providing effective feedback</td>
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<td></td>
<td>Suzanne Schut (Maastricht, Netherlands)</td>
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<tr>
<td>15:15</td>
<td>Break</td>
</tr>
<tr>
<td>16:15</td>
<td>Assessment of practical skills</td>
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<tr>
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<td>Vera Habes (Utrecht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Felip Burgos Rincon (Barcelona, Spain)</td>
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<tr>
<td>16:45</td>
<td>Final questions and summary of the day</td>
</tr>
<tr>
<td></td>
<td>Vera Habes (Utrecht, Netherlands), Jellien Makonga-Braaksma (Woudenberg, Netherlands), Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Odile Van Eck (Waalre, Netherlands), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Felip Burgos Rincon (Barcelona, Spain), Suzanne Schut (Maastricht, Netherlands)</td>
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</tbody>
</table>

Postgraduate course: PG1 Asthma and chronic obstructive pulmonary disease

**Aims:** Access educational materials here To discuss the problems associated with chronic obstructive lung diseases (COPDs) based on experience and the published literature.

**Disease(s):** Airway diseases

**Method(s):** Physiology

**Tag(s):** Clinical

**Target audience:** Allergist, General practitioner, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician
### Session 6 09:30 - 17:30

**Registration for this session is additional to the congress registration fee and is €268 on site, €244 standard**

**Postgraduate course: PG2 Thoracic ultrasound FULLY BOOKED**

Enhance your sonography practice beyond identification of pleural fluid

**Aims:** Access educational materials here to provide a solid theoretical framework for physicians wishing to develop their ultrasound skills; to encourage evidence-based practice where possible; to highlight the utility of thoracic ultrasound beyond identification of pleural fluid, including assessment of other thoracic structures; to show that, after suitable training, physicians can safely perform thoracic interventions (including image-guided pleural biopsies); and to provide a solid background for the thoracic ultrasound educational skills workshop.

**Disease(s):** Respiratory critical care, Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Imaging, Physiology, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Nurse, Physiologist, Radiologist, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Silvia Mongodi (Pavia, Italy), Peter I. Bonta (Amsterdam, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>The physics of ultrasound</td>
<td>John Wrightson (Oxford, United Kingdom)</td>
<td>24</td>
</tr>
<tr>
<td>10:00</td>
<td>Thoracic ultrasound artefacts</td>
<td>Valentina Pinelli (Brescia (BS), Italy)</td>
<td>25</td>
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<tr>
<td>10:30</td>
<td>Assessment of parenchymal abnormalities</td>
<td>Christian B. Laursen (Odense, Denmark)</td>
<td>26</td>
</tr>
<tr>
<td>11:00</td>
<td>Break</td>
<td></td>
<td>27</td>
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<tr>
<td>Time</td>
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<tr>
<td>11:30</td>
<td><strong>Pneumothorax</strong>&lt;br&gt;John Corcoran (Oxford, United Kingdom)</td>
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<tr>
<td>12:00</td>
<td><strong>Group assignment</strong>&lt;br&gt;John Wrightson (Oxford, United Kingdom), Valentina Pinelli (Brescia (BS), Italy), Christian B. Laursen (Odense, Denmark), John Corcoran (Oxford, United Kingdom)</td>
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<tr>
<td>13:00</td>
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<tr>
<td>14:00</td>
<td><strong>Pleural effusions and thickening</strong>&lt;br&gt;Najib M. Rahman (Oxford, United Kingdom)</td>
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<tr>
<td>14:30</td>
<td><strong>Basic echocardiography, vascular structures and volume status</strong>&lt;br&gt;Peter Juhl-Olsen (Aarhus N, Denmark)</td>
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<tr>
<td>15:00</td>
<td><strong>Diaphragm assessment</strong>&lt;br&gt;John Wrightson (Oxford, United Kingdom)</td>
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<td>15:30</td>
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<tr>
<td>16:00</td>
<td><strong>Advanced interventions</strong>&lt;br&gt;Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom)</td>
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<td>16:30</td>
<td><strong>Group assignment</strong>&lt;br&gt;Najib M. Rahman (Oxford, United Kingdom), Peter Juhl-Olsen (Aarhus N, Denmark), John Wrightson (Oxford, United Kingdom), Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom)</td>
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### Session 17 09:30 - 17:30

Registration for this session is additional to the congress registration fee and is €98 on site, €86 standard.

**Postgraduate course: PG3 How to plan for and manage a respiratory epidemic/pandemic**

PREPARE EU-funded project, organised in conjunction with ECDC and ISARIC

**Aims:**
Access educational materials here To give the multidisciplinary team managing a respiratory epidemic or pandemic an educational update on the topic, tools for planning and management, and then enable them to participate in an escalating pandemic scenario to improve their skills and communication. To reflect on how plans can be individualised to participants’ countries, and how management may change depending on the organism and population involved. To explore lessons learnt from the current influenza epidemic.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical, Translational

**Target audience:** Clinical researcher, Critical/Intensive care physician, Paediatrician, Pathologist, Patient, Policy maker, Scientist (basic, translational), Trainee, Adult pulmonologist/Clinician

**Chairs:** Anita Simonds (London, United Kingdom), Pasi Penttinen (Stockholm, Sweden)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>09:30</td>
<td><strong>Update on respiratory virus research and clinical care including influenza outbreak 2017-18, SARS, MERS and other respiratory pathogens</strong>&lt;br&gt;Pieter Fraaij (Rotterdam, Netherlands)</td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Intensive care aspects of pandemic management including research</strong>&lt;br&gt;Lennie P. G. Derde (Utrecht, Netherlands)</td>
</tr>
<tr>
<td>11:00</td>
<td>Break</td>
</tr>
<tr>
<td>11:15</td>
<td><strong>Preparing a pandemic plan for your hospital</strong>&lt;br&gt;Pasi Penttinen (Stockholm, Sweden)</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>Communication skills when managing a pandemic</strong>&lt;br&gt;Kajsa-Stina Longuère (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
<tr>
<td>12:45</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:30</td>
<td><strong>How to research during an acute respiratory pandemic: incorporating patients into trial design and ethical aspects</strong>&lt;br&gt;Nina Gobat (Cardiff, United Kingdom)</td>
</tr>
</tbody>
</table>
### Session 9 09:30 - 13:00

#### Postgraduate course: PG4 Imaging of the chest

**A concise overview**

**Aims:** Access educational materials here. To provide a review of the various patterns on (high-resolution) computed tomography (CT) chest, of positron emission tomography (PET)/CT, of magnetic resonance imaging (MRI) as well as ultrasound in imaging of various lung diseases; and to provide basic guidelines for the differential diagnosis of and an algorithmic approach to various lung and pleura pathologies on the basis of clinical history and distribution as well as the presence of associated abnormalities.

**Disease(s):** Interstitial lung disease, Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care, Imaging, Physiology, Respiratory intensive care, Surgery

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Pathologist, Physiologist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Laura Fregonese (London, United Kingdom), Aleksandar Grgic (Homburg, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>09:30</td>
<td>CT and interstitial lung disease</td>
<td>Sara Piciucchi (Forlì, Italy)</td>
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<tr>
<td>10:00</td>
<td>Group assignment</td>
<td>Sara Piciucchi (Forlì, Italy)</td>
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<tr>
<td>10:15</td>
<td>PET/CT of lung cancer</td>
<td>Aleksandar Grgic (Homburg, Germany)</td>
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<td>10:45</td>
<td>Group assignment</td>
<td>Aleksandar Grgic (Homburg, Germany)</td>
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<tr>
<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:30</td>
<td>Role of MRI in thoracic imaging</td>
<td>Helmut Prosch (Vienna, Austria)</td>
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<tr>
<td>12:00</td>
<td>Group assignment</td>
<td>Helmut Prosch (Vienna, Austria)</td>
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<tr>
<td>12:15</td>
<td>Imaging of the pleura - how can thoracic ultrasound, CT and PET assist the chest physician</td>
<td>Rahul Bhatnagar (Bristol, United Kingdom)</td>
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<td>12:45</td>
<td>Group assignment</td>
<td>Rahul Bhatnagar (Bristol, United Kingdom)</td>
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</table>

### Session 7 09:30 - 13:00

#### Postgraduate course: PG5 Noninvasive ventilation - pitfalls and challenges

**Aims:** Access educational materials here. To highlight the problems in acute and chronic noninvasive ventilation (NIV) that lead to poor compliance and ineffective treatment, and to offer strategies that can overcome these issues.

**Disease(s):** Respiratory critical care

**Method(s):** General respiratory patient care, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Nurse, Patient, Trainee, Adult pulmonologist/Clinician

**Chairs:** Jan Storre (Gauting, Germany), Federico Longhini (Borgomanero, Italy), Nicholas Hart (London, United Kingdom)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 12: Problems and non-adherence to NIV in intensive care</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Nicholas Hart (London, United Kingdom)</td>
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<tr>
<th>Time</th>
<th>Session 12: The mask and beyond - other technical issues</th>
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<tr>
<td>10:00</td>
<td>Dominic Dellweg (Schmallenberg Grafschaft, Germany)</td>
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<tr>
<th>Time</th>
<th>Session 12: Group assignment</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Nicholas Hart (London, United Kingdom), Dominic Dellweg (Schmallenberg Grafschaft, Germany)</td>
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<tr>
<th>Time</th>
<th>Session 12: Problems related to pressure levels and what to do</th>
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<tr>
<td>11:00</td>
<td>Patrick B. Murphy (Oxted (Surrey), United Kingdom)</td>
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<tr>
<th>Time</th>
<th>Session 12: Poor compliance in chronic care - not only the mask issue</th>
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<tbody>
<tr>
<td>12:00</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<th>Time</th>
<th>Session 12: Group assignment</th>
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<tbody>
<tr>
<td>12:30</td>
<td>Patrick B. Murphy (Oxted (Surrey), United Kingdom), Marieke L. Duiverman (Groningen, Netherlands)</td>
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</tbody>
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**Session 10**

**Postgraduate course: PG6 Bronchoscopy in pulmonary emergencies**

**Aims:** Access educational materials here to describe the clinical applications and risks of bronchoscopy in the main pulmonary emergencies, both inside and outside the intensive care unit.

**Disease(s):** Interstitial lung diseases, Respiratory critical care

**Method(s):** Endoscopy and interventional pulmonology, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, Adult pulmonologist/Clinician

**Chairs:** Lieuwe Bos (Amsterdam, Netherlands), Maren Schuhmann (Heidelberg, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 10: Bronchoscopic strategies in life-threatening bleeding</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Prashant Nemichand Chhajed (Mumbai, India)</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session 10: Bronchoscopy as a guide to managing difficult airways in the intensive care unit</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Massimiliano Sorbello (Catania, Italy)</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session 10: Usefulness of bronchoscopy in acute interstitial lung diseases</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Katerina Antoniou (Heraklion, Greece)</td>
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<tr>
<th>Time</th>
<th>Session 10: Break</th>
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<tr>
<th>Time</th>
<th>Session 10: Pitfalls of bronchoscopy in non-ventilated patients</th>
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<tbody>
<tr>
<td>11:30</td>
<td>Raffaele Scala (Arezzo, Italy)</td>
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<tr>
<th>Time</th>
<th>Session 10: Group assignment</th>
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<tbody>
<tr>
<td>12:00</td>
<td>Prashant Nemichand Chhajed (Mumbai, India), Massimiliano Sorbello (Catania, Italy), Raffaele Scala (Arezzo, Italy), Katerina Antoniou (Heraklion, Greece)</td>
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</tbody>
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**Session 10: Diagnosis and treatment of sleep-disordered breathing - the patient’s point of view**

**Aims:** Access educational materials here to increase awareness of the different clinical entities that relate to sleep-disordered breathing and the tools that can be used to screen for and diagnose sleep-disordered breathing; and to provide insights into the consequences of sleep-disordered breathing and its treatment modalities.

**Disease(s):** Sleep and breathing disorders

**Tag(s):** Clinical

**Target audience:** General practitioner, Lung function technologist, Adult pulmonologist/Clinician, Scientist (basic, translational), Trainee

**Chairs:** Juan Fernando Masa Jiménez (Cáceres, Spain), Winfried J. Randerath (Solingen, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 10: Diagnosis and treatment of sleep-disordered breathing - the patient’s point of view</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Piet-Heijn van Mechelen (Heemstede, Netherlands)</td>
</tr>
</tbody>
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### Session 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker, Location</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>09:45</td>
<td>Diagnosis of sleep-related breathing disorders and definition of hypopnoea and obstructive sleep apnoea severity</td>
<td>Sophia E. Schiza (Heraklion, Greece)</td>
<td>67</td>
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<td>Sophia E. Schiza (Heraklion, Greece)</td>
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<tr>
<td>10:26</td>
<td>Sleep apnoea and hypoventilation syndromes - cardiometabolic consequences</td>
<td>Dries Testelmans (Leuven, Belgium)</td>
<td>69</td>
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<td>70</td>
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<td>11:07</td>
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<tr>
<td>11:37</td>
<td>Sleep apnoea - management and therapies</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
<td>72</td>
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<td>Jean-Louis Pépin (Grenoble, France)</td>
<td>73</td>
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<td>12:18</td>
<td>Hypoventilation syndromes - management and therapies</td>
<td>Jean Christian Borel (Meylan, France)</td>
<td>74</td>
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<td>Group assignment</td>
<td>Jean Christian Borel (Meylan, France)</td>
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</tbody>
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#### Postgraduate course: PG8 Lung function testing

**Aims:**
Access educational materials here to provide an update on the current techniques for measuring lung physiology. The results of these techniques and their implications in terms of lung disease will be discussed as well as how these techniques are performed.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Aisling McGowan (Dublin, Ireland), Andrea Aliverti (Milan, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker, Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Spirometry and body plethysmography</td>
<td>Bruce Thompson (Melbourne, Australia)</td>
<td>76</td>
</tr>
<tr>
<td>10:00</td>
<td>Group assignment</td>
<td>Bruce Thompson (Melbourne, Australia)</td>
<td>77</td>
</tr>
<tr>
<td>10:15</td>
<td>Forced oscillation technique</td>
<td>Zoltán Hantos (Deszk, Hungary)</td>
<td>78</td>
</tr>
<tr>
<td>10:45</td>
<td>Group assignment</td>
<td>Zoltán Hantos (Deszk, Hungary)</td>
<td>79</td>
</tr>
<tr>
<td>11:00</td>
<td>Break</td>
<td></td>
<td>80</td>
</tr>
<tr>
<td>11:30</td>
<td>Multi-breath washout</td>
<td>Sylvia Verbanck (Brussels, Belgium)</td>
<td>81</td>
</tr>
<tr>
<td>12:00</td>
<td>Group assignment</td>
<td>Sylvia Verbanck (Brussels, Belgium)</td>
<td>82</td>
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<tr>
<td>12:15</td>
<td>Exhaled nitric oxide</td>
<td>Paolo Paredi (London, United Kingdom)</td>
<td>83</td>
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<tr>
<td>12:45</td>
<td>Group assignment</td>
<td>Paolo Paredi (London, United Kingdom)</td>
<td>84</td>
</tr>
</tbody>
</table>
### Session 13

**Postgraduate course: PG9 Chronic obstructive pulmonary disease exacerbations**

**Aims**: Access educational materials here to provide an update on chronic obstructive pulmonary disease (COPD) exacerbation phenotypes and the prospects for personalised treatment.

**Disease(s)**: Airway diseases, Respiratory infections

**Method(s)**: Epidemiology, General respiratory patient care

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, General practitioner, Nurse, Patient, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs**: Jadwiga Wedzicha (London, United Kingdom), Alexander Mathioudakis (Manchester, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>COPD exacerbation - the search for a respiratory “troponin”</td>
<td>Wim Janssens (Leuven, Belgium)</td>
<td>91</td>
</tr>
<tr>
<td>10:00</td>
<td>Group assignment</td>
<td>Wim Janssens (Leuven, Belgium)</td>
<td>92</td>
</tr>
<tr>
<td>10:15</td>
<td>Bacterial infection and COPD - cause or effect?</td>
<td>Aran Singanayagam (London, United Kingdom)</td>
<td>93</td>
</tr>
<tr>
<td>10:45</td>
<td>Group assignment</td>
<td>Aran Singanayagam (London, United Kingdom)</td>
<td>94</td>
</tr>
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<td>11:00</td>
<td>Break</td>
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<td>95</td>
</tr>
<tr>
<td>11:30</td>
<td>It is more than just the common cold - the role of viruses in COPD exacerbations</td>
<td>Anastasia Hutchinson (Melbourne, Australia)</td>
<td>96</td>
</tr>
<tr>
<td>12:00</td>
<td>Group assignment</td>
<td>Anastasia Hutchinson (Melbourne, Australia)</td>
<td>97</td>
</tr>
<tr>
<td>12:15</td>
<td>Prevention and treatment of COPD exacerbations</td>
<td>Maarten van den Berge (Groningen, Netherlands)</td>
<td>98</td>
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<td>12:45</td>
<td>Group assignment</td>
<td>Maarten van den Berge (Groningen, Netherlands)</td>
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</tr>
</tbody>
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### Session 15

**Postgraduate course: PG10 Cystic fibrosis: Basic defects and clinical problems in children**

**Aims**: Access educational materials here to update both paediatric and adult professionals involved in cystic fibrosis (CF) care on the recent advances in many important aspects of CF in children; including screening, treatment, respiratory exacerbations and management of gastrointestinal problems in CF patients.

**Disease(s)**: Paediatric respiratory diseases, Respiratory infections

**Method(s)**: Public health

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiotherapist, Trainee, Adult pulmonologist/Clinician

**Chairs**: Nicolas Regamey (Lucerne, Switzerland), Lutz Naehrlich (Erlangen, Germany)

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<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Page</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Newborn screening for cystic fibrosis - lessons from national programmes in Europe</td>
<td>Jürg Barben (St. Gallen, Switzerland)</td>
<td>105</td>
</tr>
<tr>
<td>10:00</td>
<td>Group assignment</td>
<td>Jürg Barben (St. Gallen, Switzerland)</td>
<td>107</td>
</tr>
<tr>
<td>10:15</td>
<td>Cystic fibrosis microbiology, emerging pathogens and more treatment options</td>
<td>Alan Smyth (Nottingham (Nottinghamshire), United Kingdom)</td>
<td>106</td>
</tr>
<tr>
<td>10:45</td>
<td>Group assignment</td>
<td>Alan Smyth (Nottingham (Nottinghamshire), United Kingdom)</td>
<td>107</td>
</tr>
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<tr>
<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:30</td>
<td>Respiratory exacerbations - definitions and therapy</td>
<td>Patrick Flume (Charleston, United States of America)</td>
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<td>12:00</td>
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<td>Patrick Flume (Charleston, United States of America)</td>
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<tr>
<td>12:15</td>
<td>Update on gastrointestinal and nutritional issues</td>
<td>Anne Munck (Paris, France)</td>
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<td>12:45</td>
<td>Group assignment</td>
<td>Anne Munck (Paris, France)</td>
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</tbody>
</table>

### Session 16

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

**Postgraduate course: PG11 Modern approaches in lung cancer diagnostics and therapy**

**Aims:** To provide a comprehensive update of modern lung cancer care standards illustrated with educational case reports and rewarding group tasks.

**Disease(s):** Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology, Imaging, Physiology, Pulmonary function testing, Surgery, Transplantation

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Pathologist, Radiologist, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clincian

**Chairs:** Matthew Evison (Manchester, United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Multimodal imaging approaches in suspected and confirmed lung cancer</td>
<td>Johan Coolen (Leuven, Belgium)</td>
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<tr>
<td>10:00</td>
<td>Group assignment</td>
<td>Johan Coolen (Leuven, Belgium)</td>
</tr>
<tr>
<td>10:15</td>
<td>Modern molecular lung cancer diagnostics – how to use and interpret it wisely</td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
</tr>
<tr>
<td>10:45</td>
<td>Group assignment</td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<tr>
<td>11:00</td>
<td>Break</td>
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<tr>
<td>11:30</td>
<td>Innovative local therapies in lung cancer</td>
<td>Gilbert Massard (Strasbourg, France)</td>
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<tr>
<td>12:00</td>
<td>Group assignment</td>
<td>Gilbert Massard (Strasbourg, France)</td>
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<tr>
<td>12:15</td>
<td>Innovative systemic lung cancer therapies</td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
</tr>
<tr>
<td>12:45</td>
<td>Group assignment</td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
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### Session 26

**Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.**

**Postgraduate course: PG12 Interventional pulmonology**

**Aims:** To discuss the major indications for diagnostic and therapeutic interventions in interventional pulmonology; and to present not only the rationale for the intervention, based on key study data, but also the actual performance and “tips and tricks” for daily practice.

**Disease(s):** Interstitial lung disease, Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology, Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Pathologist, Patient, Thoracic oncologist, Trainee, Adult pulmonologist/Clincian

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Innovative local therapies in lung cancer</td>
<td>Gilbert Massard (Strasbourg, France)</td>
</tr>
<tr>
<td>15:00</td>
<td>Innovative systemic lung cancer therapies</td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
</tr>
<tr>
<td>16:00</td>
<td>Group assignment</td>
<td>Otto Chris Burghuber (Vienna, Austria)</td>
</tr>
</tbody>
</table>
**Chairs**: Jouke T. Annema (Amsterdam, Netherlands), Prashant Nemichand Chhajed (Mumbai, India)

14:00  Transthoracic ultrasound and thoracoscopy  
Michela Bezzi (Firenze (FI), Italy)

14:30  Group assignment  
Michela Bezzi (Firenze (FI), Italy)

14:45  Endosonography  
Christophe Dooms (Leuven, Belgium)

15:15  Group assignment  
Christophe Dooms (Leuven, Belgium)

15:30  Break

16:00  Endoscopic lung volume reduction  
Dirk-Jan Slebos (Groningen, Netherlands)

16:30  Group assignment  
Dirk-Jan Slebos (Groningen, Netherlands)

16:45  Cryobiopsy  
Jürgen Hetzel (Tuebingen, Germany)

17:15  Group assignment  
Jürgen Hetzel (Tuebingen, Germany)

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**Session 27**  
14:00 - 17:30

Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.

**Postgraduate course: PG14 The evolving world of pulmonary rehabilitation**

**Aims**: Access educational materials here. To help clinicians to confidently manage all tuberculosis patients with the aim of achieving tuberculosis elimination in Europe and elsewhere; to help clinicians treat tuberculosis in patients with whom failure of treatment or adherence could result in drug resistance; and to address concerns regarding heart rate-corrected QT interval (QTc) prolongation with current second-line drugs.

**Disease(s)**: Respiratory infections  
**Method(s)**: Respiratory intensive care  
**Tag(s)**: Clinical  
**Target audience**: Critical/Intensive care physician, Paediatrician, Trainee, Adult pulmonologist/Clinician  
**Chairs**: Jan Heyckendorf (Hamburg, Germany), Raquel Duarte (Porto, Portugal)

14:00  Diagnosing and treating paediatric tuberculosis infections  
Folke Brinkmann (Hannover, Germany)

14:30  Treating multiple-drug resistant tuberculosis  
Lorenzo Guglielmetti (Paris, France)

15:00  Patient testimonial  
Lacramioara Vinogradof (Moreni, Romania)

15:10  Treating tuberculosis in patients with comorbidities  
Rob van Hest (Groningen, Netherlands)

15:40  Break

16:10  Treating acute complications and the severely ill patient with tuberculosis  
Guy Hagan (Solihull (West Midlands), United Kingdom)

16:40  Group assignment  
Folke Brinkmann (Hannover, Germany), Lorenzo Guglielmetti (Paris, France), Rob van Hest (Groningen, Netherlands), Guy Hagan (Solihull (West Midlands), United Kingdom)

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**Session 30**  
14:00 - 17:30

Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.

**Postgraduate course: PG13 Challenges in the treatment of tuberculosis**

**Aims**: Access educational materials here. To help clinicians to confidently manage all tuberculosis patients with the aim of achieving tuberculosis elimination in Europe and elsewhere; to help clinicians treat tuberculosis in patients with whom failure of treatment or adherence could result in drug resistance; and to address concerns regarding heart rate-corrected QT interval (QTc) prolongation with current second-line drugs.

**Disease(s)**: Respiratory infections  
**Method(s)**: Respiratory intensive care  
**Tag(s)**: Clinical  
**Target audience**: Critical/Intensive care physician, Paediatrician, Trainee, Adult pulmonologist/Clinician  
**Chairs**: Jan Heyckendorf (Hamburg, Germany), Raquel Duarte (Porto, Portugal)

14:00  Diagnosing and treating paediatric tuberculosis infections  
Folke Brinkmann (Hannover, Germany)

14:30  Treating multiple-drug resistant tuberculosis  
Lorenzo Guglielmetti (Paris, France)

15:00  Patient testimonial  
Lacramioara Vinogradof (Moreni, Romania)

15:10  Treating tuberculosis in patients with comorbidities  
Rob van Hest (Groningen, Netherlands)

15:40  Break

16:10  Treating acute complications and the severely ill patient with tuberculosis  
Guy Hagan (Solihull (West Midlands), United Kingdom)

16:40  Group assignment  
Folke Brinkmann (Hannover, Germany), Lorenzo Guglielmetti (Paris, France), Rob van Hest (Groningen, Netherlands), Guy Hagan (Solihull (West Midlands), United Kingdom)
Aims: Access educational materials here to provide a better understanding about the role of pulmonary rehabilitation in the integrated continuous care of patients with chronic lung disease who live in industrialised or developing countries; and to discuss in depth the most optimal pulmonary rehabilitation setting

disease(s): Airway diseases
Method(s): General respiratory patient care  Physiology
Tag(s): Clinical
Target audience: Clinical researcher, Critical/Intensive care physician, Lung function technologist, Nurse, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational). Adult pulmonologist/Clinician
Chairs: Samuel Vergès (Grenoble, France), Jana De Brandt (Diepenbeek, Belgium)

14:00 The clear evidence for pulmonary rehabilitation in chronic lung disease - a review of the most important randomised controlled trials
Claire M. Nolan (London, United Kingdom)

14:30 The optimal setting for pulmonary rehabilitation - inpatient vs. outpatient vs. home-based
Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

15:00 Group assignment
Claire M. Nolan (London, United Kingdom), Alda Sofia Pires De Dias Marques (Aveiro, Portugal)

15:30 Break

16:00 The challenges associated with setting up pulmonary rehabilitation programmes in developing countries
Rupert Jones (Milton Combe, United Kingdom)

16:30 Making pulmonary rehabilitation a part of an integrated respiratory care
Emiel F. M. Wouters (Maastricht, Netherlands)

17:00 Group assignment
Rupert Jones (Milton Combe, United Kingdom), Emiel F. M. Wouters (Maastricht, Netherlands)

**Session 25**

Registation for this session is additional to the congress registration fee and is €171 on site, €153 standard.

Postgraduate course: PG15 Challenging issues in acute interstitial lung diseases

Aims: Access educational materials here to describe the pathobiological basis, imaging features, diagnostic work-up and ventilatory and non-ventilatory therapeutic strategies in patients with acute interstitial lung diseases (ILDs) who are admitted to the intensive care unit.

disease(s): Interstitial lung diseases  Respiratory critical care
Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology  Respiratory intensive care
Tag(s): Clinical
Target audience: Critical/Intensive care physician, Scientist (basic, translational). Adult pulmonologist/Clinician
Chairs: António Morais (Maia, Portugal), Raffaele Scala (Arezzo, Italy)

14:00 Biological and pathological basis of acute ILDs
Philipp A. Schnabel (Homburg (Saar), Germany)

14:30 Group assignment
Philipp A. Schnabel (Homburg (Saar), Germany)

14:45 Imaging in acute ILDs
Gilbert R Ferretti (Grenoble, France)

15:15 Group assignment
Gilbert R Ferretti (Grenoble, France)

15:30 Break

16:00 Diagnostic work-up and treatment of patients with acute ILDs
Sara Tomassetti (Forli, Italy)

16:30 Group assignment
Sara Tomassetti (Forli, Italy)

16:45 Mechanical ventilation and beyond in acute ILDs
Philipp Lepper (Homburg (Saar), Germany)
### Session 28 14:00 - 17:30

**Postgraduate course: PG16 Advanced cardiopulmonary exercise testing**

**Cardiopulmonary exercise testing in health and respiratory disease**

**Aims:** Access educational materials here to understand the physiological constraints of exercise tolerance and its application in clinical practice; to appreciate the optimal methods for testing lung mechanics and spirometry; to understand the different formats of exercise tests, their advantages and disadvantages, and their different prognostic values in adults and children; and to appreciate the usefulness of exercise testing for evaluating pharmacological and non-pharmacological interventions in clinical practice.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Enrico Lombardi (Florence, Italy), Isabelle Vivodtzev (Cambridge, United States of America)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Pulmonary gas exchange response to exercise in health and disease</td>
<td>Paolo Palange (Rome, Italy)</td>
</tr>
<tr>
<td>14:30</td>
<td>Respiratory mechanics and exertional dyspnoea in health and disease</td>
<td>Denis O'Donnell (Kingston (ON), Canada)</td>
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<tr>
<td>15:00</td>
<td>Group assignment</td>
<td>Paolo Palange (Rome, Italy), Denis O'Donnell (Kingston (ON), Canada)</td>
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<tr>
<td>15:30</td>
<td>Break</td>
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<tr>
<td>16:00</td>
<td>The prognostic role of cardiopulmonary exercise testing in disease</td>
<td>Pierantonio Laveneziana (Paris Cedex 13, France)</td>
</tr>
<tr>
<td>16:30</td>
<td>Exercise testing in children with respiratory diseases</td>
<td>Tim Takken (Utrecht, Netherlands)</td>
</tr>
<tr>
<td>17:00</td>
<td>Group assignment</td>
<td>Pierantonio Laveneziana (Paris Cedex 13, France), Tim Takken (Utrecht, Netherlands)</td>
</tr>
</tbody>
</table>

### Session 29 14:00 - 17:30

**Postgraduate course: PG17 Asthma phenotyping**

**Therapeutic implications**

**Aims:** Access educational materials here to present the innovations in asthma stratification that facilitate personalised therapeutic strategies; to highlight the importance of stratifying asthma patients for selecting the correct therapeutic approaches; to explain the importance of both clinical and biomarker assessment in patient stratification; and to indicate the value of molecular stratification for understanding disease-driving mechanisms and how this may translate to new therapies, particularly for non-Type 2 (T2) asthma.

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, Physiology

**Tag(s):** Basic science

**Target audience:** Allergist, General practitioner, Lung function technologist, Pathologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Antonio Spanevello (Milan, Italy), Ian M. Adcock (London, United Kingdom)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>The need for asthma phenotyping</td>
<td>Sejal Saglani (London, United Kingdom)</td>
</tr>
<tr>
<td>14:30</td>
<td>Biomarker-high patients and steroid responsiveness</td>
<td>Peter Gibson (Newcastle, Australia)</td>
</tr>
<tr>
<td>15:00</td>
<td>Group assignment</td>
<td>Sejal Saglani (London, United Kingdom), Peter Gibson (Newcastle, Australia)</td>
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</table>
7.3J  
**Session 31**  
14:00 - 17:30

*Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.*

**Postgraduate course: PG18 Cystic fibrosis: management in adult patients**

**Aims:** Access educational materials here to update both paediatric and adult professionals involved in cystic fibrosis (CF) care on the recent advances in many important aspects of CF; to describe the latest knowledge about CF transmembrane conductance regulator (CFTR) dysfunction in CF and how this influences the different organs and leads to new treatments modalities; and to address the special needs caused by CF as an adult disease, namely, the transition of adolescents into adult care, fertility and end-of-life issues.

**Disease(s):** Paediatric respiratory diseases, Respiratory infections

**Method(s):** Public health

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiotherapist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Nicholas Simmonds (London, United Kingdom), Carsten Schwarz (Berlin, Germany)

14:00  **The ageing cystic fibrosis patient**  
Alex Horsley (Manchester, United Kingdom)  
14:30  **Caring for end-stage disease and lung transplantation**  
Christian Benden (Zürich, Switzerland)  
15:00  **Group assignment**  
Alex Horsley (Manchester, United Kingdom), Christian Benden (Zürich, Switzerland)  
15:40  **Break**  
16:00  **CFTR dysfunction and its specific treatment**  
Jane C. Davies (London, United Kingdom)  
16:30  **Fertility in adult cystic fibrosis**  
Jessica Maetz (Paris, France), Michal Shteinberg (Haifa, Israel)  
17:10  **Group assignment**  
Jane C. Davies (London, United Kingdom), Michal Shteinberg (Haifa, Israel)

7.3S  
**Session 32**  
14:00 - 17:30

*Registration for this session is additional to the congress registration fee and is €171 on site, €153 standard.*

**Postgraduate course: PG19 Heart-lung interaction**

What the chest physician has to know

**Aims:** Access educational materials here to describe the diagnosis and treatment of heart failure and coronary artery disease; to delineate how lung disease hinders the diagnostic process, including physical examination, biomarkers, chest X ray and echocardiography; to discuss the duration of treatment following unprovoked pulmonary embolism, the need to pause anticoagulation before invasive procedures, and the management of bleeding given that new oral anticoagulation has changed, improved and complicated the treatment of acute and chronic pulmonary embolism.

**Disease(s):** Airway diseases, Pulmonary vascular diseases

**Method(s):** General respiratory patient care, Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Patient, Physiologist, Scientist (basic, translational), Student, Trainee

**Chairs:** Lies Lahousse (Ghent, Belgium), Leonardo Michele Fabbri (Modena, Italy)

14:00  **Chronic obstructive pulmonary disease - cardiovascular sequel of bronchodilation?**  
Ian Stone (London, United Kingdom)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 3: Language session: Chinese Programme 2018: Part I (08:30 - 11:00)</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Introduction&lt;br&gt;Thierry Troosters (Leuven, Belgium)</td>
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<tr>
<td>08:35</td>
<td>Update on management of new emerging acute respiratory viral infectious diseases&lt;br&gt;Nanshan Zhong (Guangzhou (Guangdong), China)</td>
</tr>
<tr>
<td>09:05</td>
<td>The role of chronic infection in respiratory diseases&lt;br&gt;Eva Polverino (Barcelona, Spain)</td>
</tr>
<tr>
<td>09:35</td>
<td>Establishment of PCCM training system in China&lt;br&gt;Chen Wang (Beijing, China)</td>
</tr>
<tr>
<td>10:05</td>
<td>School interventions to improve asthma control&lt;br&gt;Jonathan Grigg (London, United Kingdom)</td>
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<td>10:35</td>
<td>Break</td>
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<tr>
<th>Time</th>
<th>Session 4: Language session: Russian Speaking Programme 2018: Part I (09:00 - 10:55)</th>
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<tbody>
<tr>
<td>09:00</td>
<td>An assay of CF transmembrane conductance regulator function that uses primary CF intestinal organoids: shared experiences with the Russian CF centre&lt;br&gt;Jeffrey M. Beekman (Utrecht, Netherlands)</td>
</tr>
<tr>
<td>09:25</td>
<td>Collaboration between the Russian National CF Patient Registry and the European CF Society Patient Registry&lt;br&gt;Elena Amelina (Moscow, Russian Federation)</td>
</tr>
<tr>
<td>09:50</td>
<td>Specific features of spectrum and frequency of CFTR mutations in ethnically different populations of the Russian Federation&lt;br&gt;Nataliya Kashirskaya (Moscow, Russian Federation)</td>
</tr>
</tbody>
</table>
### Terminal 7  
**Session 14**  
**09:30 - 11:30**

**Getting the basics right: a new look at core issues (part I: a new look at healthcare for long-term conditions)**

**Aims:** This primary care programme will take a new look at some of the core elements of the management of people with long-term respiratory disease.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Epidemiology, General respiratory patient care, Public health

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Policy maker, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Rianne van der Kleij (Leiden, Netherlands)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker and Location</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Primary healthcare that is fit for the 21st century</td>
<td>David Darmon (Nice, France)</td>
</tr>
<tr>
<td>10:00</td>
<td>Developing partnerships with patients</td>
<td>Isabel Saraiva (Cascais, Portugal)</td>
</tr>
<tr>
<td>10:15</td>
<td>A new look at asthma self-management</td>
<td>Tim Harrison (Nottingham (Nottinghamshire), United Kingdom)</td>
</tr>
<tr>
<td>10:45</td>
<td>Improving the quality of the air we breathe</td>
<td>Jeroen Douwes (Wellington, New Zealand)</td>
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<tr>
<td>11:15</td>
<td>Break</td>
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### 7.3P  
**Session 18**  
**10:30 - 17:30**

**Patient: ELF Patient organisation networking day**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker and Location</th>
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<tbody>
<tr>
<td>11:30</td>
<td>Welcome to ELF Day</td>
<td>Isabel Saraiva (Cascais, Portugal), Speaker to be confirmed</td>
</tr>
<tr>
<td>12:00</td>
<td>Keynote presentation: The Montreal Model of Patient Partnership</td>
<td>Annie Descoteaux, Center of Excellence on Partnership with Patients and Public, Faculty of Medicine, University of Montreal</td>
</tr>
<tr>
<td>12:45</td>
<td>Patient Organisation Posters</td>
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<tr>
<td>14:05</td>
<td>Patient education and ERS: presentation and discussion</td>
<td>Daiana Stolz (Basel, Switzerland)</td>
</tr>
<tr>
<td>14:45</td>
<td>Innovative collaborations in medical and patient education</td>
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<tr>
<td>15:05</td>
<td>Open forum discussions</td>
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<tr>
<td>16:05</td>
<td>Group discussions and feedback</td>
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</tbody>
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### 7.1B  
**Session 19**  
**10:55 - 13:00**

**Language session: Russian Speaking Programme 2018: Part II**

**Rare pulmonary diseases: cystic fibrosis and lymphangioleiomyomatosis (A joint ERS/RRS/ARSRM session)**

**Aims:** To describe different aspects of cystic fibrosis (CF) and lymphangioleiomyomatosis (LAM). These rare diseases are among the most difficult conditions in respiratory medicine in terms of their diagnosis and management.

**Tag(s):** Clinical

**Chairs:** Elena Davidovskaya (, Belarus), Andrey Belevskiy (Moscow, Russian Federation)

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<th>Time</th>
<th>Title</th>
<th>Speaker and Location</th>
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<tbody>
<tr>
<td>10:55</td>
<td>Modern concept of sporadic LAM pathogenesis</td>
<td>Sergio Harari (Milano (MI), Italy)</td>
</tr>
</tbody>
</table>
7.3C Session 20 11:00 - 13:00
Language session: Chinese Programme 2018: Part II
a joint ERS / CTS session

Aims: The session will present and discuss the new advances in respiratory medicine presented by experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine. The session will offer an overview on respiratory viral infectious disease, Pulmonary and Critical Care Medicine, HAP/VAP and non invasive ventilation in Europe and China.

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Guy F Joos (Ghent, Belgium), Rong-Chang Chen (Guangzhou (Guangdong), China)

11:00 The Chinese New Guideline on HAP/VAP
Jieming Qu (Shanghai, China)

11:30 HAP/VAP: new guidelines, new approaches
Francesco Blasi (Milan, Italy)

12:00 Recent advance in home noninvasive mechanical ventilation in China
Rong-Chang Chen (Guangzhou (Guangdong), China)

12:30 Is there still a role for NIV in acute hypoxemic failure?
Leo M.A. Heuniks (Amsterdam, Netherlands)
**Aims:** To provide French-speaking delegates with state of the art updates on key topics in respiratory medicine. Note that the presentations will be conducted in French and French and English versions of the slides will be projected simultaneously.

**Tag(s): Clinical**

**Target audience:** Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Physiologist, Scientist (basic, translational), Paediatrician, Pathologist, Student, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician

**Chairs:** Nicolas Roche (Paris, France), Guy Brusselle (Ghent, Belgium)

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Follow-up of resected bronchial carcinoma / Surveillance des cancers bronchiques opérés</td>
<td>Virginie Westeel (Besançon, France)</td>
</tr>
<tr>
<td>14:26</td>
<td>Yield of cohorts in the bronchial diseases / Apport des cohortes dans la connaissance des maladies respiratoires/bronchiques</td>
<td>Chantal Raherison-Semjen (Pessac, France)</td>
</tr>
<tr>
<td>15:18</td>
<td>Big data applied to sleep / Les big-data appliqués au sommeil</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
</tr>
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</table>

7.3C  Session 24  14:00 - 16:00

**Language session: Spanish and Portuguese Programme 2018: Part I**

* a joint ERS / ALAT / SBPT / SEPAR / SPP session

**Aims:** Human migration will be a defining feature of the present era. Migration is a complex phenomenon that shapes multiple economic, social and security aspects of our daily lives in this increasingly interconnected world. While some migration is driven by negative circumstances such as conflicts, persecution, environmental degradation and lack of security and opportunity, another key motivation is that it can significantly improve people’s lives: after migrants from the poorest countries move to a developed country, their incomes improve by 15-fold and their child mortality rates drop by 16-fold. This has increased illegal migration to and the influx of refugees in developed countries. Consequently, illegal migration and refugees are increasingly being seen as high-priority policy issues by the public and many governments and throughout the world. With regard to public health, the referral populations of migrants and refugees often have high infectious disease burdens. Thus, the control of infectious diseases, in particular tuberculosis, in migrants should be a top priority for the foreseeable future. Note that the presentations will be conducted in Portuguese or Spanish and in English. Spanish/Portuguese and English versions of the slides will be projected simultaneously.

**Tag(s): Clinical**

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Policy maker, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Carlos Andres Jimenez Ruiz (Madrid, Spain), Gustavo Zabert (Neuquén, Argentina)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Introduction</td>
<td>Carlos Andres Jimenez Ruiz (Madrid, Spain)</td>
</tr>
<tr>
<td>14:05</td>
<td>Tuberculosis in a migrating world</td>
<td>Adrian Rendon (Monterrey, Mexico)</td>
</tr>
<tr>
<td>14:35</td>
<td>Drug-resistant tuberculosis in Europe</td>
<td>Jose Antonio Caminero Luna (Las Palmas de Gran Canaria, Spain)</td>
</tr>
<tr>
<td>15:05</td>
<td>Panel discussion</td>
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<td>15:35</td>
<td>Break</td>
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</tbody>
</table>

7.1B  Session 33  15:45 - 17:30

**Language session: French Programme 2018: Part II**

* A joint ERS/SPLF session

**Aims:** To provide French-speaking delegates with state of the art updates on key topics in respiratory medicine. Note that the presentations will be conducted in French and French and English versions of the slides will be projected simultaneously.
## Session 34  16:00 - 17:30

### Language session: Spanish and Portuguese Programme 2018: Part II

**Aims:** To describe ventilation strategies in neurovascular disease and the non-invasive ventilation network in Portugal. Note that the presentations will be conducted in Portuguese or Spanish, and in English, with dual projection of slides in either Spanish or Portuguese and English.

**Tag(s):** Clinical

**Chairs:** Venceslau José Coelho Pinto Hespanhol (Porto, Portugal), Fernando Luiz Cavalcanti Lundgren (Recife (PE), Brazil)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/(Institution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00</td>
<td><strong>Mechanical ventilation in patients with neuromuscular diseases</strong></td>
<td>Marcelo Alcântara Holanda (Fortaleza (CE), Brazil)</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>The non-invasive ventilation network in Portugal</strong></td>
<td>Maria José Araújo Cunha Guimarães (Palmeira – Stº Tirso, Portugal)</td>
</tr>
<tr>
<td>17:00</td>
<td>Panel discussion</td>
<td></td>
</tr>
</tbody>
</table>

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## Session 35  17:00 - 19:00

**Game Zone: GAME ZONE - TRAINING**

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**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Paediatrician, Pathologist, Physiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician

**Chairs:** Anh Tuan Dinh-Xuan (Paris, France), Mina Gaga (Athens, Greece)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/(Institution)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:45</td>
<td>Atmospheric air pollution: results from interventional studies</td>
<td>Isabella Annesi Maesano (Paris, France)</td>
</tr>
<tr>
<td>16:11</td>
<td>Thrombo-embolic pulmonary hypertension: which treatment should we choose?</td>
<td>Xavier Jais (Le Kremlin-Bicêtre, France)</td>
</tr>
<tr>
<td>16:37</td>
<td>Smoking cessation and COPD</td>
<td>Myrna Waked (Beyrouth, Lebanon)</td>
</tr>
<tr>
<td>17:03</td>
<td>Anti-tuberculosis drugs: what is new?</td>
<td>Giovanni Battista Migliori (Varese (VA), Italy)</td>
</tr>
</tbody>
</table>

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**A joint ERS/ALAT/SBPT/SEPAR/SPP session**

**Aims:** To describe ventilation strategies in neurovascular disease and the non-invasive ventilation network in Portugal. Note that the presentations will be conducted in Portuguese or Spanish, and in English, with dual projection of slides in either Spanish or Portuguese and English.
Skills workshop: SW1 Body plethysmography

Aims: Access educational materials here to help attendees gain the technical expertise and physiological knowledge needed to perform full body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to understand the system setup, quality control and calibration; and to learn about the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

Disease(s): Airway diseases, Paediatric respiratory diseases
Method(s): Physiology, Pulmonary function testing
Tag(s): Clinical
Target audience: Clinical researcher, Lung function technologist, Nurse, Paediatrician, Physiologist, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Jellien Makonga-Braaksma (Woudenberg, Netherlands)

Introduction

Calibration, quality control and system settings
Maureen P. Swanney (Christchurch, New Zealand)

Technical aspects of body plethysmography
Kevin De Soomer (Burcht, Belgium)

Standardisation of test performance
Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)

Reporting and interpretation of case studies
Gilles Garcia (Le Kremlin-Bicêtre, France)

Skills workshop: SW2 Body plethysmography FULLY BOOKED

Aims: Access educational materials here to help attendees gain the technical expertise and physiological knowledge needed to perform full body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to understand the system setup, quality control and calibration; and to learn about the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

Disease(s): Airway diseases, Paediatric respiratory diseases
Method(s): Physiology, Pulmonary function testing
Tag(s): Clinical
Target audience: Clinical researcher, Lung function technologist, Nurse, Paediatrician, Physiologist, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Frans H.C. De Jongh (Enschede, Netherlands)

Introduction

Calibration, quality control and system settings
Felip Burgos Rincon (Barcelona, Spain)

Technical aspects of body plethysmography
Ellie Oostveen (Edegem (Antwerp), Belgium)

Standardisation of test performance
Aisling McGowan (Dublin, Ireland)

Reporting and interpretation of case studies
Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)
### 7.3V Session 162  
**14:30 - 16:50**

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

**Skills workshop: SW3 Body plethysmography FULLY BOOKED**

**Aims:** Access educational materials here to help attendees gain the technical expertise and physiological knowledge needed to perform full body plethysmography according to both best practice and the latest recommendations that are supported by experts in the field; to understand the system setup, quality control and calibration; and to learn about the technical aspects of the body box, standardisation of test performance, reporting and case study interpretation.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Nurse, Lung function technologist, Paediatrician, Physiologist, Student, Trainee

**Chairs:** Frans H.C. De Jongh (Enschede, Netherlands)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>1575</td>
<td><strong>Introduction</strong></td>
<td></td>
</tr>
<tr>
<td>1576</td>
<td><strong>Calibration, quality control and system settings</strong></td>
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<td></td>
<td>Maureen P. Swanney (Christchurch, New Zealand)</td>
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<tr>
<td>1577</td>
<td><strong>Technical aspects of body plethysmography</strong></td>
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<td>Kevin De Soomer (Burcht, Belgium)</td>
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<td>1578</td>
<td><strong>Standardisation of test performance</strong></td>
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<td>Matthew Rutter (Cambridge (Cambridgeshire), United Kingdom)</td>
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<tr>
<td>1579</td>
<td><strong>Reporting and interpretation of case studies</strong></td>
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<td></td>
<td>Gilles Garcia (Le Kremlin-Bicêtre, France)</td>
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### 7.3T Session 66  
**10:40 - 13:00**

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

**Skills workshop: SW5 Endoscopy FULLY BOOKED**

**Hands-on workshop on endoscopic technologies**

**Aims:** Access educational materials here to present and demonstrate the current and upcoming technologies in endoscopy.

**Disease(s):** Airway diseases, Thoracic oncology

**Method(s):** Endoscopy and interventional pulmonology, General respiratory patient care, Surgery

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Paediatrician, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician

**Chairs:** Pallav L. Shah (London, United Kingdom)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>441</td>
<td><strong>Introduction</strong></td>
<td></td>
</tr>
<tr>
<td>442</td>
<td><strong>Endobronchial valve placement</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Momen Wahidi (Durham, United States of America)</td>
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</tr>
<tr>
<td>443</td>
<td><strong>Paediatric bronchoscopy</strong></td>
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</tr>
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<td></td>
<td>Ernst Eber (Graz, Austria)</td>
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</tr>
<tr>
<td>444</td>
<td><strong>Cryobiopsy</strong></td>
<td></td>
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<td></td>
<td>Maren Schuhmann (Heidelberg, Germany)</td>
<td></td>
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<tr>
<td>445</td>
<td><strong>Endobronchial ultrasound with transbronchial needle aspiration</strong></td>
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<td>Michela Bezzi (Firenze (FI), Italy)</td>
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### 7.3T Session 161  
**14:30 - 16:50**

**Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.**

**Skills workshop: SW6 Endoscopy**

**Hands-on workshop on endoscopic technologies**

**Aims:** Access educational materials here to present and demonstrate the current and upcoming technologies in endoscopy.
**Session 62**

**Professional development: PDW2 Medical writing**

**Aims:** Access educational materials here. The aim of this 90-minute workshop is to give a short overview on the art of medical writing.

**Chairs:** Gilbert Massard (Strasbourg, France)

- **09:00** Welcome
  - Gilbert Massard (Strasbourg, France)

- **09:15** Why should we publish? How to handle your data
  - Enrico Ruffini (Torino (TO), Italy)

- **09:35** Different types of publications and general rules
  - Gilbert Massard (Strasbourg, France)

- **10:05** The editorial cycle from submission to publication: how do I get my abstract accepted in an international conference?
  - Enrico Ruffini (Torino (TO), Italy)

- **10:25** Conclusion
  - Gilbert Massard (Strasbourg, France)

**Session 88**

**Professional development: PDW3 Leading and managing change**

**Aims:** Access educational materials here. To increase the ability of the delegates to identify the causes of resistance to change and the strategies to overcome this resistance; to utilise steps in planned change; to communicate and motivate effectively throughout change; and to engage staff members in the change process.

**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care, Imaging, Public health, Pulmonary function testing, Respiratory intensive care, Surgery, Transplantation

**Target audience:** Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Louellen N. Essex (Wayzata, United States of America), Gernot G.U. Rohde (Frankfurt am Main, Germany)

- **10.09.2018 59**

- **10.09.2018 636** Why change efforts might fail: what the research tells us
  - Louellen N. Essex (Wayzata, United States of America)

- **10.09.2018 637** The personal response to change
  - Louellen N. Essex (Wayzata, United States of America)
The planned change process: steps and guidelines
Louellen N. Essex (Wayzata, United States of America)

The leader as a role model
Louellen N. Essex (Wayzata, United States of America)

Question and answer session
Louellen N. Essex (Wayzata, United States of America)

Action planning: how to apply what has been learned
Louellen N. Essex (Wayzata, United States of America)

7.3U  Session 163  14:30 - 16:30
Registration for this session is additional to the congress registration fee and is €49 on site, €43 standard.

Professional development: PDW4 How to deal with difficult employees and co-workers
Strategies for working with direct reports and co-workers

Aims: Access educational materials here Participants will increase their ability to develop effective approaches to dealing with challenging situations, to use effective communication skills to raise concerns and to identify difficult personality types and utilise specific strategies for dealing with them.

Method(s): Cell and molecular biology Endoscopy and interventional pulmonology Epidemiology General respiratory patient care Imaging Physiology Public health Pulmonary function testing Respiratory intensive care Surgery Transplantation

Target audience: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Louellen N. Essex (Wayzata, United States of America), Nicolino Ambrosino (Livorno (LI), Italy)

What makes a situation challenging?
Louellen N. Essex (Wayzata, United States of America)

How to implement a communication approach: a step-by-step guide
Louellen N. Essex (Wayzata, United States of America)

How to manage difficult situations
Louellen N. Essex (Wayzata, United States of America)

How to use a coping technique when communication does not work
Louellen N. Essex (Wayzata, United States of America)

Summary
Louellen N. Essex (Wayzata, United States of America)

Question and answer session
Louellen N. Essex (Wayzata, United States of America)

7.2D  Session 147  13:00 - 14:00
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME1 Endoscopic lung volume reduction FULLY BOOKED

Aims: Access educational materials here to present and discuss the different endoscopic lung volume reduction techniques based on the actual evidence in cases, and to analyse possible complications, limitations and contraindications.

Disease(s): Airway diseases

Method(s): Endoscopy and interventional pulmonology Imaging Surgery

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Nurse, Physiotherapist, Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Péter Horváth (Budapest, Hungary)

13:00  Endoscopic lung volume reduction  Felix J.F. Herth (Heidelberg, Germany)

7.3E  Session 149  13:00 - 14:00
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME2 Lung microbiome: study design and standardisation FULLY BOOKED
Aims: Access educational materials here to review the novel detection and cultivation techniques used in lung microbiome studies; and to outline and explain the obstacles and opportunities associated with lung microbiome studies, with a focus on the important and sometimes unmet need for controls, the required experimental procedures and the guidelines for the analysis.

Disease(s): Airway diseases, Respiratory infections
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Allergist, Clinical researcher, Paediatrician, Scientist (basic, translational), Student, Trainee
Chairs: Sabine Bartel (Borstel, Germany)

13:00 Lung microbiome: study design and standardisation
Debby Bogaert (Edinburgh, United Kingdom)

7.3U Session 155 13:15 - 14:15
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME3 Bronchoscopic evaluation of recurrent/persistent pneumonia in children
Aims: Access educational materials here to discuss the role of flexible bronchoscopy when evaluating recurrent or persistent pneumonia in children that remains otherwise unexplained by noninvasive diagnostic tests.

Disease(s): Airway diseases, Paediatric respiratory diseases
Method(s): Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care
Tag(s): Clinical
Target audience: General practitioner, Paediatrician, Patient, Student, Trainee
Chairs: Michele Ghezzi (Bergamo, Italy)

13:15 Bronchoscopic evaluation of recurrent/persistent pneumonia
Bülent Taner Karadag (İstanbul, Turkey)

7.3I Session 150 13:00 - 14:00
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME4 Mucus clearance techniques across respiratory care settings
Aims: Access educational materials here To provide an update on the current expert experience and scientific evidence regarding the use of mucus clearance techniques in various respiratory care settings.

Disease(s): Respiratory critical care, Respiratory infections
Method(s): General respiratory patient care, Respiratory intensive care
Tag(s): Clinical
Target audience: Clinical researcher, Critical/Intensive care physician, Nurse, Paediatrician, Patient, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician
Chairs: Christian Osadnik (Melbourne, Australia)

13:00 Mucus clearance techniques across respiratory care settings
Christian Osadnik (Melbourne, Australia)

7.3M Session 37 07:00 - 08:15
Challenging clinical cases: CC1 Lung transplantation
Aims: Access educational materials here To discuss problems in the pre-transplant setting and post-transplant care based on real case reports where lung transplantation is challenging due to possible relative contraindications.

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology, Imaging, Surgery, Transplantation
Tag(s): Clinical
Target audience: Critical/Intensive care physician, Nurse, Paediatrician, Pathologist, Physiotherapist, Radiologist, Scientist (basic, translational), Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs: Federica Meloni (Pavia (PV), Italy)

A patient with cystic fibrosis and Mycobacterium abscessus infection
Christian Benden (Zürich, Switzerland)

A diagnosis of restrictive allograft syndrome is made - how to deal with this patient?
Jens Gottlieb (Hannover, Germany)
### 7.2D Session 38 07:00 - 08:15

**Challenging clinical cases: CC2 Broad spectrum of chronic thromboembolic pulmonary hypertension**

**Aims:** Access educational materials here To discuss the potential pitfalls associated with chronic thromboembolic pulmonary hypertension (CTEPH) differential diagnosis; to explain the increased complexity of the management, including the combination of the multiple therapeutical options currently available.

**Disease(s):** Pulmonary vascular diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Student, Trainee, Thoracic surgeon

**Chairs:** Joanna Pepke-Zaba (Cambridge (Cambridgeshire), United Kingdom)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not always what it seems - pitfalls on CTEPH diagnosis</td>
<td>225</td>
</tr>
<tr>
<td>Nick Kim (La Jolla, United States of America)</td>
<td></td>
</tr>
<tr>
<td>Combining therapeutical options in CTEPH</td>
<td>226</td>
</tr>
<tr>
<td>Eckhard Mayer (Bad Nauheim, Germany)</td>
<td></td>
</tr>
<tr>
<td>Primary pulmonary choriocarcinoma mimicking chronic thromboembolic pulmonary hypertension</td>
<td>227</td>
</tr>
<tr>
<td>Tomás Pulido Zamudio (México D.F, Mexico)</td>
<td></td>
</tr>
<tr>
<td>Chronic Thromboembolic Pulmonary Hypertension related to ICD</td>
<td>228</td>
</tr>
<tr>
<td>Margarida Baptista Duarte Barata (Lisboa, Portugal)</td>
<td></td>
</tr>
<tr>
<td>Treatment of Chronic Thromboembolic Pulmonary Hypertension: A new approach</td>
<td>229</td>
</tr>
<tr>
<td>Margarida Baptista Duarte Barata (Lisboa, Portugal)</td>
<td></td>
</tr>
</tbody>
</table>

### 7.3A Session 41 08:30 - 10:30

**Grand round: Lung cancer Grand Round**

**Aims:** In this lung cancer Grand Round, four assembly members will challenge your knowledge in lung cancer care with their individual cases. This Grand Round will also provide you with a unique opportunity for interactive discussions with not only the case presenters but also an on-stage multidisciplinary board panel. Learn and debate about the following four hot lung cancer topics: using the full diagnostic potential of computed tomography (CT) lung cancer screening beyond the nodule; reappraising N2 disease in the era of immunotherapy and targeted therapies; controlling stage IV non-small cell lung cancer (NSCLC) with modern molecular diagnostics and systemic therapies; and tackling brain metastases and the primary tumour.

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Public health  Pulmonary function testing  Respiratory intensive care  Surgery

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiotherapist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Paul E. Van Schil (Edegem (Antwerp), Belgium), Solange Peters (Lausanne, Switzerland), Matthew Evison (Manchester, United Kingdom), Annemie Snoeckx (Edegem (Antwerp), Belgium), Cécile Le Péchoux (Villejuif, France), Aurelie Fabre (Dublin, Ireland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>A benign nodule in former smoker with COPD</td>
<td>240</td>
</tr>
<tr>
<td></td>
<td>Margarida Afonso (Castelo Branco, Portugal)</td>
<td></td>
</tr>
<tr>
<td>09:00</td>
<td>To resect, or not to resect – the problem with difficult histology and rare tumours</td>
<td>241</td>
</tr>
<tr>
<td></td>
<td>Matthias Esch (Ganderkesee, Germany)</td>
<td></td>
</tr>
<tr>
<td>09:30</td>
<td>Intercalating multimodal treatment strategy in a patient with advanced pulmonary adenocarcinoma harbouring the uncommon complex EGFR mutation L833V/H835L</td>
<td>242</td>
</tr>
<tr>
<td></td>
<td>Armin Frille (Leipzig, Germany)</td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>When you hear hoofbeats, look for zebras</td>
<td>243</td>
</tr>
<tr>
<td></td>
<td>Jan van Meerbeeck (Edegem (Antwerp), Belgium)</td>
<td></td>
</tr>
</tbody>
</table>

### 7.3N Session 42 08:30 - 10:30

**Symposium: State of the art session: Airways disease update on clinical and translational studies**
Aims: This session will highlight the latest developments and controversies in airways disease. Four key areas will be covered that have provided critical new observations in the past year that will help to diagnose and treat subsets of patients with asthma and chronic obstructive pulmonary disease (COPD). The new observations range from novel ways of defining the mechanisms that underpin the disease in an individual patient by using the appropriate selective biomarkers (molecular phenotyping) to how this information can shape new targeted approaches to the treatment of asthma and COPD (biological agents in airways disease). The session will also cover the role of macrolides for treating severe asthma exacerbations and what this can reveal about disease mechanisms and how we can use blood biomarkers to identify the COPD patients who could benefit from current and novel therapies. At the end of this session, delegates will have the most up-to-date, clear and practical take-home knowledge relating to the diagnosis, treatment and prevention of severe asthma and COPD.

Disease(s): Airway diseases
Method(s): Cell and molecular biology  General respiratory patient care
Tag(s): Translational
Target audience: Allergist, Clinical researcher, Patient, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician
Chairs: Ildikó Horváth (Budakeszi, Hungary), Antonio Spanevello (Milan, Italy)

08:30 Molecular phenotyping of asthma comes of age
Sally Wenzel (Pittsburgh, United States of America)

09:00 Macrolides, inflammation and the lung microbiome: cause or effect?
Peter Gibson (Newcastle, Australia)

09:30 Are we really transforming asthma and COPD management with biologics?
Nicola Hanania (Houston, United States of America)

10:00 Eosinophils in COPD: do they predict drug response?
Dave Singh (Manchester, United Kingdom)
Aims: To present the findings of the EUREST-PLUS Horizon 2020 project. The aim of this project was to evaluate the impact on the European population of the recently implemented tobacco control policies in Europe. These policies include those in the Tobacco Products Directive (TPD) of the European Union and the WHO Framework Convention on Tobacco Control. The impact of these policies was assessed by a cohort study on 6,000 smokers in six European countries. This study also assessed how respiratory comorbidities influence clinicians in six European countries to provide cessation assistance. The final results of this study will be presented in this session. We will also describe the results of the 2017 Eurobarometer analysis of 26,000 adults across 28 European countries, which assessed changes in public perceptions regarding e-cigarettes, warning labels on tobacco products and smoke-free environments. This session is supported by a grant from the European Commission (Horizon 2020 HC0-6-2015; EUREST-PLUS: 681109; Vardavas).

Method(s): Epidemiology  Public health

Tag(s): Translational

Target audience: General practitioner, Nurse, Paediatrician, Patient, Policy maker, Scientist (basic, translational), Student

Chairs: Charlotte Pisinger (Glostrup, Denmark), Constantine Vardavas (Athens, Greece)

08:30 The effect of respiratory comorbidities on the provision of cessation assistance in six EU countries: are clinicians doing enough?  Linnea Hedman (Luleå, Sweden)  252

09:00 Factors that affect quit attempts in smokers in six EU countries  Paraskevi Katsaounou (Athens, Greece)  253

09:30 The impact on tobacco product use of policies in the EU, including smoke-free legislation, warning labels and taxation  Filippos T. Filippidis (London, United Kingdom)  254

10:00 Monitoring e-cigarette use and variables across the EU: a 2018 update  Constantine Vardavas (Athens, Greece)  255

7.3C Session 45  08:30 - 10:30

Symposium: Difficult paediatric lung disease

Aims: to present and discuss: (i) basic treatments for paediatric pulmonary diseases as asthma, cystic fibrosis, (ii) the pulmonary manifestations of extra-pulmonary paediatric diseases, (iii) an update on interstitial lung diseases (iv)

Disease(s): Paediatric respiratory diseases

Tag(s): Clinical

Target audience: Paediatrician, Patient, Student, Trainee, Adult pulmonologist/Clinician

Chairs: Bart L. Rottier (Groningen, Netherlands), Alexander Möller (Zürich, Switzerland)

08:30 From early origins of adult lung disease to Asthma and COPD overlap syndrome (ACOS)  Klaus F. Rabe (Grosshansdorf, Germany)  256

09:00 The management of children with interstitial lung disease  Andrew Bush (London, United Kingdom)  257

09:30 Lung disease of prematurity – challenges today and tomorrow  Jayesh M. Bhatt (Nottingham (Nottinghamshire), United Kingdom)  258

10:00 Treatment of asthma above and beyond anti IgE: an update for the clinician – The use of biologicals in asthma treatment  Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom)  259

7.3Z1 Session 46  08:30 - 10:30

Oral presentation: ILDs: From bench to bedside

Disease(s): Interstitial lung diseases

Method(s): Endoscopy and interventional pulmonology  Imaging  General respiratory patient care  Cell and molecular biology  Epidemiology

Chairs: Effrosyni D. Manali (Athens, Greece), Zoe Daniil (Larisa, Greece)

OA260 Late Breaking Abstract - Loss of PTEN induces alveolar epithelial cell senescence resulting in lung fibrosis via activated NF-κB  Yaqiong Tian (Nanjing, China), Chuanmei Liu, Hui Li, Jinghong Dai, Jingyu Chen, Min Zhou, Hourong Cai
| OA261 | Late Breaking Abstract - Mesenchymal stromal cell exosomes prevent and revert experimental pulmonary fibrosis through systemic modulation of monocyte phenotypes  
Nahal Mansouri (Boston, United States of America), Gareth R. Willis, Angeles Fernandez-Gonzalez, Monica Reis, S. Alex Mitsialis, Stella Kouroubias |
| OA262 | Late Breaking Abstract - A Deep Learning Algorithm for Classifying Fibrotic Lung Disease on High Resolution Computed Tomography  
Simon Walsh (London, United Kingdom), Lucio Calandriello, Mario Silva, Nicola Sverzellati |
| OA263 | Late Breaking Abstract - Idiopathic Pulmonary Fibrosis – a worldwide review of ‘real’ life’ practice: experience from a treatment feasibility review in 41 countries  
Marlies S. Wijsenbeek (Rotterdam, Netherlands), Florin Floricel, Joelle Thonnard, Ann Fieuw, Paul Ford, Eva Santermans, Charlotte Vandenrijn, Toby Maher |
| OA264 | Late Breaking Abstract - Ten years experience of whole lung lavage for PAP cases in Songklanagarind hospital  
Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpong |
| OA265 | Late Breaking Abstract - Prognostic analysis of secondary pulmonary alveolar proteinosis: Inspection by one of the world’s largest data.  
Haruyuki Ishii (Tokyo, Japan), Ryushi Tazawa, Takeshi Saraya, Yoshikazu Inoue, Koh Nakata |
| OA266 | Late Breaking Abstract - Phase 1 dose escalation study of aerosolized pirfenidone in normal healthy volunteers (NHV), smokers, and IPF patients  
Alan Montgomery (Seattle, United States of America), Kelly Otto, Jun Khoo, Ian Glasspole |

### 7.3B Oral presentation: Risk stratification in treatment of pulmonary arterial hypertension

**Disease(s):** Pulmonary vascular diseases  
**Method(s):** Cell and molecular biology  
**Public health**  
**General respiratory patient care**  

**Chairs:** Marius M. Hoepfer (Hannover, Germany), Marc Humbert (Paris, France)  

| OA267 | Late Breaking Abstract - Efficacy and safety of macitentan in portopulmonary hypertension: the PORTICO trial  
Olivier Sitbon (Le Kremlin-Bicêtre, France), Jaume Bosch, Emmanuelle Cottrel, Pascal De Groote, Marius M Hoepfer, Michael Krowka, Nicolas Martin, Laurent Savale, Nick Kim |
| OA268 | Risk assessment in pulmonary arterial hypertension (PAH): Insights from the GRIPHON study  
| OA269 | Early improvements predict outcomes in pulmonary arterial hypertension  
R James White (Rochester, United States of America), C Dario Vizza, Christiana Blair, Jonathan Langley, Marius M Hoepfer |
| OA270 | ESC/ERS low-risk profile achievement accurately predicts mortality in scleroderma-associated PAH  
Valentina Mercurio (Napoli, Italy), Nermin Diab, Grace Peloquin, Traci Housten-Harris, Rachel Damico, Todd Kolb, Stephen Mathai, Paul Hassoun |
| OA271 | Impact of initial treatment strategy on long-term survival in pulmonary arterial hypertension (PAH)  
Athénaïs Boucly (Le Kremlin Bicêtre, France), Laurent Savale, Jason Weatherald, David Montani, Mitja Jevnikar, Xavier Jais, Gérald Simonneau, Marc Humbert, Olivier Sitbon |
| OA272 | Early treatment of borderline pulmonary arterial hypertension associated with systemic sclerosis: a randomized, controlled, double-blind, parallel group, proof-of-concept study  
Zixuan PAN (Heidelberg, Germany), Christina A. Eichstaedt, Nicola Benjamin, Norbert Blank, Hanns-Martin Lorenz, Christoph Fiehn, Jie Song, Panagiota Xanthouli, Satenik Harutyunova, Benjamin Egenlauf, Alberto M. Marra, Christine Fischer, Ekkehard Grüning |
| OA273 | emPHasis-10 score predicts mortality in patients with pulmonary hypertension  
Stephen Wort (Hampton (Middlesex), United Kingdom), Carla Favoccia, Alexander Kempny, Laura Claire Price, Colm Mccabe, Kostantinos Dimopoulos |
| OA274 | Pirfenidone protects against pulmonary hypertension in the Sugen5416/hypoxia rat model  
Paul-Benoit Poble (Besançon, France), Carole Phan, Timothée Quatremare, Jennifer Bordeneuve, Raphael Thuillier , Amélie Cunot, Alice Huertas , Peter Dorfmüller, Ly Tu, Marc Humbert, Maria-Rosa Ghigna, Christophe Guignabert |
Symposium: Organoids and pluripotent stem cells
Disease modelling and drug testing

Aims: to present and discuss (i) the methods by which gut and lung organoids can be cultured and their uses as disease models in translational research, (ii) the biological basis, methodological approaches and applications of Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR/Cas) gene editing, and (iii) the technical approaches targeting epigenetic mechanisms that can be used to reprogram gene expression.

Disease(s): Airway diseases  Interstitial lung diseases

Method(s): Cell and molecular biology

Target audience: Clinical researcher, Paediatrician, Scientist (basic, translational), Student, Trainee

Chairs: Sabine Bartel (Borstel, Germany), Pieter S. Hiemstra (Leiden, Netherlands)

08:30  Intestinal organoids as ex vivo models for personalised medicine in cystic fibrosis
Jeffrey M. Beekman (Utrecht, Netherlands)

08:54  The use of bronchospheres to study chronic lung diseases
Melanie Königshoff (Denver, United States of America)

09:18  Genome modification with CRISPR/Cas
Patrick Harrison (Cork, Ireland)

09:42  The potential of epigenetic editing in chronic lung disease
Marianne Rots (Groningen, Netherlands)

10:06  Optimizing experimental research in respiratory diseases: an ERS Statement
Martin Kolb (Hamilton (ON), Canada)

Symposium: Respiratory muscles at rest, during exercise and in the critically ill patient

Aims: to provide an update on the latest knowledge in the field about respiratory muscle dysfunction, evaluation and management; to discuss the potential respiratory muscle dysfunctions or adaptations in various pathological contexts; to present the respiratory muscle responses to exercise and their role in exercise limitations and symptoms; and to improve understanding of the effects of critical illness on respiratory muscle structure and function, the clinical consequences of respiratory muscle weakness and the potential therapeutic options for improving muscle function in chronic obstructive pulmonary disease (COPD).

Disease(s): Respiratory critical care  Sleep and breathing disorders

Method(s): General respiratory patient care  Imaging  Physiology  Respiratory intensive care

Target audience: Clinical researcher, Critical/Intensive care physician, Nurse, Paediatrician, Physiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Samuel Vergès (Grenoble, France), Nicolino Ambrosino (Livorno (LI), Italy)

08:30  Respiratory muscle dysfunction in COPD - update on causes and biological findings
Samuel Vergès (Grenoble, France)

09:00  Neural respiratory drive in respiratory disease patients
Caroline Jolley (London, United Kingdom)

09:30  The respiratory muscles in intensive care unit patients
Alexandre Demoule (Paris, France)

10:00  Respiratory muscles/mechanics and dyspnoea in disease - what kind of rehabilitation?
Rik Gosselink (Leuven, Belgium)

Oral presentation: Primary care management of respiratory conditions

Disease(s): Airway diseases  Respiratory infections

Method(s): Epidemiology  General respiratory patient care  Public health

Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Persijn Honkoop (Leiden, Netherlands)
Late Breaking Abstract - Trial of c-reactive protein point of care testing (CRP-POCT) for safely reducing antibiotics for acute exacerbations of chronic obstructive pulmonary disease (COPD) in primary care
Patrick T. White (London, United Kingdom), Christopher C. Butler, David Gillespie, Janine Bates, Rachael Lowe, Emma Thomas-Jones, Mandy Wooton, Kerenza Hood, Rhiannon Phillips, Hasse Melbye, Carl Llor, Jochen Cals, Gurudutt Naik, Nigel Kirby, Michaela Gal, Evgenia Riga, Nicholas Francis

Investigating the feasibility of a mobile mindfulness-based digital intervention for patients with asthma
Ben Ainsworth (Southampton (Hampshire), United Kingdom), Sabina Stanescu, Sarah Kirby, Beth Stuart, Ramesh Kurukulaaratchy, Ratko Djukanovic, Mike Thomas

Practical use of control of allergic rhinitis and asthma test in a telehealth service
Corina de Jong (Groningen, Netherlands), Hendrik Jan Bareta, João Fonseca, Ellen Van Heijst, Thys Van Der Molen, Desiree Schipper, Joana Tschiggianni, Janwillem Kocks, Bertine Flokstra-De Blok

The impact of common cold and flu on sleep: sufferer and physician perceptions
Ingo Fietze (Berlin, Germany), Gillian Phillipson

More household air pollution and COPD at higher altitude - a population-based, observational FRESH AIR study in rural Kyrgyzstan
Evelyn Brakema (Amsterdam, Netherlands), Aizhamal Tabshylova, Marise Kasteleyn, Eveline Molendijk, Rianne Van Der Kleij, Job Van Boven, Berik Emilor, Meerim Akmatalieva, Maamed Mademilov, Mattijs Numans, Stan Williams, Talant Soormah, Niels Chavannes

ICS withdrawal and exacerbation risk by GOLD 2017 Report: post hoc analysis of the WISDOM trial
Henrik Watz (Großhansdorf, Germany), Helgo Magnussen, Roberto Rodriguez-Roisin, Kay Tetzlaff, Michaela Haensel, Achim Mueller, Claus Vogelmeier

Adherence rate to inhaled therapies and factors affecting adherence in elderly with chronic obstructive lung diseases
Emel Ceylan (Aydin, Turkey), Hüseyin Örün, Tuğçe Kübra Güleç, Mert Altaş, Nuray Seyitoğlu Ertek, Aydn Çöl, Fisun Karadağ

Effectiveness of 2x2-hour lectures and case methods in Swedish general practitioners’ continuing medical education about COPD: a cluster randomized controlled trial
Hanna Sandelowsky (Vendelso, Sweden), Ingrid Krakau, Sonja Modin, Björn Ställberg, Sven-Erik Johansson, Anna Nager

Late Breaking Abstract - Asthma prevalence and management in adults in France in 2018: ASTHMAPOP survey
Chantal Raherison-Semjen (Pessac, France), Armine Izadifar, Maud Russier, Christine Rolland, Jean-Pierre Aubert, Rahma Sellami, Delphine Leynaud, Caroline Fabry-Vendrand, Alain Didier

Adult asthma phenotypes identified by a cluster analysis on clinical and biological characteristics
Rachel Nadif (Villejuif, France), Mickael Febryssy, Miora Andrianjafitamy, Nicole Le Moual, Frederic Gormand, Jocelyne Just, Isabelle Pin, Regis Matran, Valerie Siroux, Orianne Dumas, Mohamed Nadif

Eosinophilic inflammation and lung function decline in a long-term follow-up of a large population-based asthma cohort
Helena Backman (Lulea, Sweden), Linnea Hedman, Caroline Stridsman, Sven-Arne Jansson, Thomas Sandstrom, Anne Lindberg, Bo Lundback, Eva Rommark

Inhaled corticosteroids and FEV1 decline in asthma: an international cohort study
Alessandro Marcon (Verona (VR), Italy), Pierpaolo Marchetti, Josep M Antó, Lucia Cazzoletti, Isa Cerveri, Angelo Corsico, Judith Garcia-Aymerich, Joachim Heinrich, David Gislason, Rain Jögi, Ane Johannessen, Bénédicte Leynaert, André Malinovschi, Isabelle Pin, Joost Weyler, Christer Janson, Simone Accordinni, Deborah Jarvis

Asthma control and decline in FEV1/FVC ratio over 10 years in adults
Simone Accordinni (Verona (VR), Italy), Lucia Cazzoletti, Josep Antó, Isa Cerveri, Angelo Corsico, Judith Garcia-Aymerich, Joachim Heinrich, David Gislason, Rain Jögi, Ane Johannessen, Bénédicte Leynaert, André Malinovschi, Isabelle Pin, Laura Portas, Joost Weyler, Christer Janson, Alessandro Marcon, Deborah Jarvis
Effect of asthma on the development of obesity among adults: Results of the European Community Respiratory Health Survey (ECRHS)
Subhabrata Moitra (Barcelona, Spain), Anne-Elie Carsin, Michael Abramson, André Amaral, Josep Maria Anto, Vaia Lida Chatzi, Bertil Forsberg, Frank Gilliland, Francisco Gomez Real, Deborah Jarvis, Jeong-Lim Kim, Bénédicte Leynaert, Pavilio Piccioni, Nicole Probst-Hensch, Valerie Siroux, Stefano Guerra, Judith Garcia-Aymerich, Manolis Kogevinas

Childhood asthma affects job and education in young adults
Christian Schyllert (Vendelsö, Sweden), Martin Andersson, Anne Lindberg, Eva Rönmark, Linnea Hedman

Is “protective” effect of day care on asthma explained by selection bias?
Aino-Kaisa Rantala (Oulu, Finland), Øystein Karlstad, Maria C Magnus, Hein Stigum, Siri E Håberg, Per Nafstad, Wenche Nystad, Jouni J Jakkola

Oral presentation: Prematurity and lung disease
Disease(s): Respiratory critical care, Airway diseases
Method(s): Physiology, General respiratory patient care, Respiratory intensive care, Cell and molecular biology
Chairs: Theodore Dassios (Beckenham (Kent), United Kingdom), Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)

Late Breaking Abstract - Protein signature stratifies severity of chronic lung disease in preterms after birth
Alida Kindt-Dunjko (Neuherberg, Germany), Kai Foerster, Andreas Flemmer, Prajakta Oak, Andreas Pomschar, Birgit Ertl-Wagner, Jan Krumsiek, Anne Hilgendorf

Azithromycin (AZM) reduces death or severe respiratory morbidity at 12 month adjusted age (AA) in Ureaplasma-positive intubated preterms.
Rose Viscardi (Baltimore, United States of America), Michael Terrin, Laurence Magder, Susan Duklerian, Natalie Davis, Ken Waites, Namasiyavam Ambalavanan, Pamela Donohue, David Kaufman, Deborah Tuttle, Jorn-Hendrik Weitkamp

The role of ASC signalling in preterm infants at risk of chronic lung disease of prematurity
David Gallacher (Cardiff (South Glamorgan), United Kingdom), Martha Triantafillou, Julian Marchesi, Kathy Trianaflou, Sailesh Kotecha

Lung mechanics, airway reactivity, and muscularization are altered in former mechanically ventilated preterm lambs
Mar Janna Dahl (Salt Lake City, United States of America), Chiara Veneroni, Anna Lavizzari, Jane Pillow, Brad Yoder, Kurt Albertine, Raffaele Dellaca

Effects of sustained lung inflation (SLI) at birth on lung aeration during non-invasive resuscitation of preterm lambs
Davide Bizzotto (Milano (MI), Italy), Marjanna Dahl, Chiara Veneroni, Anna Lavizzaria, Bradley Yoder, Ilaria Milesi, Kurt Albertine, Raffaele Dellaca

Are lung function abnormalities associated with reduced exercise capacity in prematurely born young people?
Christopher Harris (London, United Kingdom), Alan Lunt, Janet Peacock, Anne Greenough

Assessment of lung mechanics for the prediction and evaluation of pulmonary outcome in preterm infants
Emanuela Zannin (Milano (MI), Italy), Raffaele Dellacà, Roland Neumann, Sven Schulzke

The analysis of genetic polymorphisms of manganese superoxide dismutase at premature infants with bronchopulmonary dysplasia
Irina Kirshina (Omsk, Russian Federation), Elena Pavlinova, Olga Savchenko, Natalya Vlasenko, Ekaterina Karpeta

Oral presentation: Evolving approaches to differential diagnosis
Disease(s): Pulmonary vascular diseases, Airway diseases
Method(s): Endoscopy and interventional pulmonology, Physiology, Public health, Transplantation
Chairs: Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Monika Franczuk (Warszawa, Poland)

Late Breaking Abstract - Detection of small airway obstruction patterns in forced oscillometry (FO) and spirometry using artificial neural networks
Tong Xu (Toronto, Canada), Hojat Salehinejad, Qian Huang, Elizabeth Cho, Shahrokh Valaee, Chung-Wai Chow

Is a screening spirometry a good screening tool?
Daniel Schuermans (Bruxelles, Belgium), Sven Verschraegen, Geert Celis, Eef Vanderhelst

Pilot project to provide spirometry inreach sessions to hostels/homeless shelters in Tower Hamlets, London
Claire Davey (London, United Kingdom), Rasheda Choudhury, Maryam Mohammed, Jane Simpson
**OA311**

Factors affecting lung function in adult cystic fibrosis patients after lung transplantation.

Elena Amelina (Moscow, Russian Federation), Alexander Cherniak, Natalia Karchevskaya, Stanislav Krasovsky, Evgeny Tarabrin, Zhanma Naumenko, Sergey Golovinskiy, Galina Neklyudova, Marina Kevorkova, Taimyrzaz Kallagov, Tatyana Pashkova, Nikolay Nechaev, Nadezhda Guseva, Alexander Chuchalin

**OA312**

Lung Clearance Index (LCI) in children = 12 years old with Cystic Fibrosis (CF) taking ORKAMBI at University Hospital Limerick (UHL)

Magdalena Mulligan (Limerick, Ireland), Rebecca White, Louise Collins, Barry Linnane

**OA313**

Double gas transfer factors (TLNO/CO) in supine position discriminate congenital heart diseases from healthy adults.

Stefan Matecki (Montpellier, France), Pascal Amedro, Jonathan Mane, Farez Gouzi, Nam Ledong, Arnaud Bourdin, Maurice Hayot, Bruno Degano, Sophie Guillaumont, Gregoire Delavilleon

**OA314**

Investigating Exercise Induced Laryngeal Obstruction (EILO): A review of a specialist paediatric service

Jane Kirkby (Sheffield, United Kingdom), Nicki Barker, Laurie Smith, Ravi Thevasagayam, Kelechi Ugonna

**OA315**

Assessment of repeatability of eNose (SpiroNose) measurements in healthy and asthmatic subjects

Rianne de Vries (Amsterdam, Netherlands), J. W. F. Dagelet, U Frey, R. Lutter, A. H. Maitland-Van Der Zee, P. J. Sterk, A Sinha

7.3L  
Session 54  
08:30 - 10:30

**Poster discussion: Epidemiology and prognostication of critically-ill patients**

**Disease(s):** Respiratory critical care  
**Method(s):** Transplantation  
Epidemiology  
General respiratory patient care  
Respiratory intensive care

**Chairs:** Marieke L. Duiverman (Groningen, Netherlands), Ligia Helena Pires Vicente (Portimão, Portugal)

**PA316**

Acute Respiratory Distress Syndrome in Mechanically-Ventilated Patients with Community-Acquired Pneumonia

Miquel Ferrer Monreal (Barcelona, Spain), Catia Cilloniz, Adamanthia Liapikou, Carolina García-Vidal, Albert Gabarrus, Adrián Cecatto, Jorge Puig De La Bellacasa, Francesco Blasi, Antoni Torres

**PA317**

Changes in characteristics and long-term mortality of intensive care unit admissions from 2003 to 2010: a study from nationwide population-based cohort

Do Jun Kim (Chuncheon, Republic of Korea), Jeongwon Heo, Jae Hoon Jeong, Young Joo Kim, Seung-Joon Lee, Woo Jin Kim, Seon-Sook Han, Yoonki Hong

**PA318**

Prospective comparative study on etiologic diagnosis of ventilator-associated pneumonia

Thuílio Marquez Cunha (Uberlandia (MG), Brazil), Rodrigo Miquelanti Melo, Maria Aparecida Gonçalves Gomes, Vinicius Pafume Oliveira, Debora Lara Zuza Scheucher, Robinson Sabino Silva, Luiz Ricardo Goulart Filho, Denise Von Dolinger Brito

**PA319**

Compared survivors with nonsurvivors in oldest-old patients with acute respiratory distress syndrome: a prospective observational cohort study

Kuo-Chin Kao (Taipei, Taiwan), Chih-Hao Chang, Chiu-Hua Wang, Han-Chung Hu, Chung-Chi Huang, Li-Fu Li, Huang-pin Wu, Cheng-Ta Yang

**PA320**

Chronic critical illness in patients with acute respiratory failure admitted to a respiratory intensive care unit

Alessandro Marchioni (Modena (MO), Italy), Roberto Tonelli, Riccardo Fantini, Luca Tabbi, Antonia Sdanganelli, Ivana Castaniere, Alessia Verduri, Martina Garofalo, Stefania Cerri, Valentina Ruggieri, Enrico Clini

**PA321**

Atrial arrhythmias after lung transplantation: prevalence, risk factors, management and outcome

Sara Isabel Campos Silva (Pasos de Ferreira, Portugal), Nidia Caires, Ricardo Dias Coelho, Ana Sofia Santos, Raquel Rosa, Telma Lopes, Sara Alfarroba, Paulo Calvinho, Luisa Semedo, João Cardoso, José Fragata

**PA322**

The spontaneous breathing trial has no role to predict the ability of spontaneous breathing in patients with prolonged weaning

Friederike Sophie Magnet (Köln, Germany), Eva Heilf, Sophie E. Hettermann, Jens Callegari, Sarah B. Schwarz, Jan H. Storre, Wolfram Windisch

**PA323**

Incidence and risk factors for venous thrombosis after venovenous extracorporeal membrane oxygenation in adult patients with acute respiratory failure

Christoph Fisser (Regensburg, Germany), Christoph Reichenbach, Thomas Mueller, Maximilian Malferttheiner, Alois Philipp, Maik Foltan, Dirk Lunz, Florian Zeman, Matthias Lubnow

**PA324**

Which respiratory and non–respiratory factors contribute to outcome in critically ill patients with invasive ventilation?

Fabienne Simonis (Amsterdam, Netherlands), Marcelo Gama De Abreu, Paolo Pelosi, Marcus Schultz, Ary Serpa Neto
**PA325** Pectoralis muscle area in the follow-up of Acute Respiratory Distress Syndrome
Carlos Toufen Junior (São Roque, Brazil), Adriana Hirota, Carlos R. R. Carvalho

**PA326** A multidisciplinary approach to post intensive care tracheostomy weaning and the impact of a dedicated team on decannulation rates and outcome in a regional UK major trauma centre
Rachael Moses (North Shields (Tyne and Wear), United Kingdom), Jane Pulsford, Sarah Bunting, Louise Stevens, Helen Al-Nufoury, Andrew Fishburn, Claire Slinger, Aash Vyas, Craig Spencer

**PA327** The prognostic capacity of prone positioning–induced changes in P/F, deadspace and driving pressure
David van Meenen (Leiden, Netherlands), Jan Paul Rozoeman, Ary Serpa Neto, Paolo Pelosi, Marcelo Gama De Abreu, Frederique Paulus, Marcus Schultz

**PA328** Ventilatory strategy in ARDS: Transpulmonary pressure vs conventional ARDS net protocol in management of ARDS
Debraj Jash (Kolkata (West Bengal), India), Dhruva Chaudhry, Jaikrit Bhutani, Manjunath Bg, Aditya Chaudhry

**PA329** The ventilatory inefficiency measured as VE/VCO2 slope is increased in patients who fail to spontaneous breathing trial
René López (Santiago, Chile), Rodrigo Pérez, Iván Caviedes, Jerónimo Graf

**PA330** Risk classification using predefined cutoffs for P/F and driving pressure in non–ARDS patients with invasive ventilation
David van Meenen (Leiden, Netherlands), Coen Merkies, Laura Schouten, Lieuwe Bos, Ary Serpa Neto, Paolo Pelosi, Marcelo Gama De Abreu, Frederique Paulus, Marcus Schultz

**PA331** Serum albumin, arterial blood gases and base deficit as prognostic indicators of mortality in acute burned patients
Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Mohamed Megahed

**PA332** Criteria for tracheostomy tube removal for patients with respiratory failure
Maria Cardone (Napoli (NA), Italy), Salvatore Longobardi, Francesco Squillante

**PA333** Clinical characteristics and outcomes of patients under invasive mechanical ventilation at Ayder comprehensive specialized hospital adult intensive care unit, Mekelle, Ethiopia.
Ephrem Berhe (Mekelle, Ethiopia), Kibrom G/Slassie, Tesfay G/Zeabber

**Terminal 7**  Session 55  08:30 - 10:30

**Oral presentation: Paediatric asthma: prevention, diagnosis and treatment**

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Public health  General respiratory patient care

**Chairs:** Erol Gaillard (Leicester (Leicestershire), United Kingdom), Fabio Midulla (Roma (RM), Italy)

**OA334** Late Breaking Abstract - Effects of OM-85 BV on the murine gut microbiome
Linnea Honeker (Vail, United States of America), Donata Vercelli, Fernando Martinez

**OA335** Prenatal exposure to negative life events and job stress and asthma risk
Vivi Schlünssen (Århus C, Denmark), Xiaolin Liu, Kathrine Madsen, Camilla Sejbæk, Henrik Kolstad, Jørn Olsen, Karin Hougaard, Kirsten Hansen, Niklas Andersson, Reiner Rugulies

**OA336** Breast-milk microbes and risk of asthma by 6 years of age
Inka Hämynen (Kaupio, Finland), Martin Täubel, Anne Karvonen, Laura Orivuori, Outi Vaarala, Anne Hyvärinen, Josef Riedler, Caroline Roduit, Roger Lauener, Jean-Charles Dalphin, Erika Von Mutius, Sami Remes, Juha Pekkanen, Pirkka V. Kirjavainen

**OA337** Microbiota as in farm homes protect children from asthma
Pirkka Kirjavainen (Kuopio, Finland), Anne Karvonen, Rachel Adams, Martin Täubel, Georg Loss, Markus Ege, Anne Hyvärinen, Rob Knight, Dick Heederik, Erika Von Mutius, Juha Pekkanen

**OA338** Feasibility and diagnostic accuracy of an electronic nose in children with asthma and cystic fibrosis
Michiel Bannier (Maastricht, Netherlands), Kim Van De Kant, Quirijn Jobsis, Edward Dompeling

**OA339** Age and height trajectories of exhaled nitric oxide in schoolchildren
Sandrah Eckel (Los Angeles, United States of America), Yue Zhang, Erika Garcia, Patrick Muchmore, Edward Rappaport, Kiros Berhane, William Linn, Noa Molshatski, Rima Habre, Frank Gilliland

**OA340** Valved holding chambers vary considerably in drug delivery efficacy
Peter Csonka (Vuorentausta, Finland), Lauri Lehtimaki
HUMOX

Paul McNamara (Liverpool (Merseyside), United Kingdom), Vanessa Compton, Matthew Peak, Julie Grice, Janet Clark, Liz Lee, Caroline Burchett, Ravi Jayaram, Ian Kilroy, David Lacy, Tracy Moitt, Egle Saviciute, Dannii Clayton, Steven Lane, Ashley Jones

7.2A  Session 56  08:30 - 10:30
Poster discussion: The global impact of bronchiectasis and nontuberculous mycobacteria (NTM)

Disease(s): Respiratory infections | Airway diseases | Respiratory critical care | Respiratory infections
Method(s): Cell and molecular biology | Imaging | Respiratory intensive care | General respiratory patient care | Epidemiology
Chairs: Michael Loebinger (London, United Kingdom), Eva Van Braeckel (Ghent, Belgium)

PA342 Validation of the Nontuberculous Mycobacteria (NTM) Module in NTM Lung Disease
Alexandra Quitter (Coral Gables, United States of America), Chinmay Deshpande, Engels Chou, Ruchit Shah, Srimoyee Bose, Kamy Lasch, Quan Zhang

PA343 In vitro susceptibility to rifampin and ethambutol and treatment outcome in MAC lung disease
Byoung Soo Kwon (Seoul, Republic of Korea), Yong Pil Chong, Mi-Na Kim, Heungsup Sung, Younsuck Koh, Woo-Sung Kim, Jin-Woo Song, Yeon-Mok Oh, Sang-Do Lee, Sei Won Lee, Jae-Seung Lee, Chae-Man Lim, Chang-Min Choi, Jin-Won Huh, Sang-Bum Hong, Sojung Park, Tae Sun Shim, Kyung-Wook Jo

PA344 The clinical significance of Mycobacterium triplex isolates in Queensland, Australia
Justine Gibson (Brisbane (QLD), Australia), Tim Baird, Sushil Pandy, Carla Tolson, Chris Coulter, Geoffrey Eather, Rachel Thomson

PA345 Bronchiectasis in Oceania – survival and health care in Indigenous and non-Indigenous populations
Graeme Maguire (Broome (WA), Australia), Sean Blackall, Jae Beom Hong, Paul King, Conroy Wong, Lloyd Einsiedel, Marc Rémond, Cindy Woods

PA346 Population based survey on the NTM pulmonary disease treatment in Japan
Kiyohiko Izumi (Kiyose (Tokyo), Japan), Kozo Morimoto, Kazuhiro Uchimura, Manabu Ato, Satoshi Mitarai, Naoki Hasegawa

PA347 Actual treatment practices of pulmonary nontuberculous mycobacteriosis analysed from national insurance claim data in Japan
Kozo Morimoto (Tokyo, Japan), Kiyohiko Izumi, Manabu Ato, Satoshi Mitarai, Naoki Hasegawa

PA348 Characteristics of patients with pulmonary non-tuberculous Mycobacterial infection in bronchiectasis: Data from the EMBARC registry

PA349 Effects of a home programme of airway clearance techniques on adventitious respiratory sounds in patients with bronchiectasis: a randomised controlled trial
Beatriz Herrero Cortina (Zaragoza, Spain), Oscar Membrado-Lope, Marta San Miguel-Pagola, Marina Francin-Galle, Juan Antonio Saez-Perez, Eva Polverino

PA350 Rhinosinusitis is associated with increased symptoms and more frequent exacerbations among patients with bronchiectasis- data from the EMBARC registry
Michal Shteinberg (Haifa, Israel), Pieter Goeminne, Michael Loebinger, Charles Haworth, Felix Ringshausen, Katerina Dimakou, Marlene Murris, Montse Vendrell, Rosario Menendez, Robert Wilson, Adam Hill, Antoni Torres, Tobias Welte, Francesco Blasi, Anthony De Soyza, Stuart Elborn, Eva Polverino, James Chalmers, Stefano Aliberti

PA351 AMPK is inhibited in severe bronchiectasis and may relate to reduced ciliary beat frequency
Yan Hui Giam (Dundee (Angus), United Kingdom), Amelia Shoemark, Holly Keir, Martina Contarini, Diane Cassidy, Simon Finch, James Chalmers

PA352 Comparison of bronchiectasis cohorts from tertiary centres in Sydney, Milan and Dundee reveal differences in severity and patterns of care
Simone Visser (Sydney (NSW), Australia), Enna Stroil-Salama, Madeleine Peters, Di Lui, Stefano Aliberti, James Chalmers, Lucy Morgan

PA353 Quality of life in patients with non-cystic fibrosis bronchiectasis based on radiologic findings
Burcu Arpinar Yigitbas (Istanbul, Turkey), Celal Satici, Elif Yelda Niksarlioğlu, Mustafa Asım Demirkol, Gizem Köybaşı, Ayşe Filiz Koşar
Chest Physiotherapy in patients with Bronchiectasis – what is the current practice in Europe?
Maria Aurora Pinto Mendes (Penafiel, Portugal), Simon Finch, Amelia Shoemark, Eva Polverino, Francesco Blasi, Felix C Ringshausen, Anthony De Soyza, Monseerrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles Haworth, Marlene Murriss, Katerina Dimakou, Adam T Hill, Michael R Loebinger, Rosario Menéndez, Anthony Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James Chalmers

Impact of six-minute walk test on health-related quality of life in pulmonary Mycobacterium avium complex disease
Kazuma Yagi (Tokyo, Japan), Takanori Asakura, Ho Namkong, Shoji Suzuki, Takahiro Asami, Satoshi Okamori, Tetsuya Kusumoto, Yohei Funatsu, Hirofumi Kamata, Tomoyasu Nishimura, Makoto Ishii, Tomoko Betsuyaku, Naoki Hasegawa

Validity of COPD diagnosis in Bronchiectasis patients: data from the EMBARC registry
Maria Aurora Pinto Mendes (Penafiel, Portugal), Simon Finch, Amelia Shoemark, Eva Polverino, Francesco Blasi, Felix C Ringshausen, Anthony De Soyza, Monseerrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles Haworth, Marlene Murriss, Katerina Dimakou, Adam T Hill, Michael R Loebinger, Rosario Menéndez, Antoni Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James D Chalmers

Neutrophil elastase increases ciliary beat frequency ex-vivo: implications for the bronchiectasis airway
Martina Contarini (Gorgonzola (MI), Italy), Yan Hui Giam, Holly Keir, Amelia Shoemark, James D Chalmers

Primary ciliary dyskinesia in adults with bronchiectasis: Data from the Embarc registry
Amelia Shoemark (Dundee (Angus), United Kingdom), Eva Polverino, Francesco Blasi, Felix C Ringshausen, Anthony De Soyza, Monseerrat Vendrell, Pieter C Goeminne, Wim Boersma, Charles S Haworth, Marlene Murriss, Katerina Dimakou, Adam T Hill, Michael R Loebinger, Rosario Menéndez, Antoni Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James D Chalmers

Poster discussion: Occupational and environmental lung diseases: asthma and the airways

Disease(s): Airway diseases, Interstitial lung diseases

Method(s): General respiratory patient care, Cell and molecular biology, Epidemiology, Physiology, Public health

Chairs: Benoit Nemery (Leuven, Belgium), Christopher Barber (Sheffield (South Yorkshire), United Kingdom)

Late Breaking Abstract - Do inhaled carbonaceous particles translocate from the lung to the placenta?
Norrice Liu (London, United Kingdom), Lisa Miyashita, Graham Mcphail, Shakila Thangaratinam, Jonathan Grigg

Identification of significant late reactions from smaller exposures in specific inhalation challenge testing
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Alastair Robertson, Gareth Walters

Airway symptoms and findings in patients exposed to moisture damage at work
Sarkku Vilpas (Tampere, Finland), Lauri Lehtimäki, Eliina Kankare, Leenanajia Kleemola, Jura Numminen, Pia Nynäs, Antti Tikkakoski, Jukka Uitti, Jussi Karjalainen

Predictors of patterns of response following specific inhalation challenge testing with low molecular weight agents.
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Alastair Robertson, Gareth Walters

Effect of exposure to alpha-quartz on lung function in outdoor blasting crews
Mariann Ulvestad (Oslo, Norway), Dag Gunnar Ellingsen, Nils Petter Skaugset, May Brit Lund, Bente Ulvestad

Is 'take-out' allergen detectable in laboratory animal facilities?
Johanna Feary (London, United Kingdom), Jennifer Canizales, Caitlin Fitzgerald, Harry Ward, James Potts, Paul Cullinan, Meinir Jones

A review of cleaning agent-related occupational asthma from Birmingham, UK (2000-16)
Vicky Moore (Birmingham (West Midlands), United Kingdom), Sherwood Burge, Alastair Robertson, Gareth Walters

Prevalence and risk factors of COPD in dairy farmers: the AIRBAg study
Stéphane Jouneau (Rennes Cedex, France), Solenne Marette, Ange-Marie Robert, Thomas Guyot, StéPhanie Guillot, Anthony Chapron, Carole Mailloux, Benoît Desrues, Jean-François Viel

Specific inhalation challenge causes minor changes in nasal proteome of work-related asthma patients
Hille Suojalehto (Helsinki, Finland), Irmieli Lindström, Anne Puustinen

Specific IgE sensitization and asthma in French farmers
Sebastien Clerc (Paris, France), Denis Caillaud, Cara Maesano, Joana Vitte, Isabella Annesi-Maesano
PA370 Evidence based Code of Best Practice for animal research facilities: results of the SPIRAL study
Johanna Feary (London, United Kingdom), Bernadette Fitzgerald, Susie Schofield, James Potts, Jennifer Canizales, Meinir Jones, Paul Cullinan

PA371 Cleaning products and respiratory health effects in professional cleaners: A systematic review
Sara De Matteis (London, United Kingdom), Olga Archangelidi, Debbie Jarvis

PA372 Profiling of hypersensitivity pneumonitis diagnosed at a UK specialist service for ILD and occupational lung diseases
Sherwood Burge (Solihull (West Midlands), United Kingdom), Gareth Walters, Justin Mokhlis, Vicky Moore, Geraldine Burge, Alastair Robertson

PA373 Occupational exposure and incidence of asthma based on prescription of drugs.
Jesper Baelum (Odense C, Denmark), Lars Rauff Skadhauge, Trine Thilsing, Jesper R. Davidsen, Øjvind Omland, Vivi Schlünsen

PA374 Asthma associated with occupational exposure in dairy farmers
Sasho Stoleski (Skopje, FYROM (Macedonia)), Jordan Minov, Jovanka Karadzinska-Bislimovska, Dragan Mijakoski, Aneta Atanasovska

PA375 Airborne exposures and fractional exhaled nitric oxide in British foundry workers
Ruth Wiggins (Manchester (Greater Manchester), United Kingdom), Jade Sumner, Ed Robinson, Leon Lewis, Lisa Bradshaw, Alison Codling, Chris Barber

PA376 Asthma in cleaners: a distinct phenotype?
Collin Brooks (Wellington, New Zealand), Tania Slater, Marine Corbin, Dave Mclean, Ridvan Firestone, Jan-Paul Zock, Neil Pearce, Jeroen Douwes

7.2C Session 58 08:30 - 10:30
Poster discussion: Evaluation of COPD and various diseases by different imaging modalities

Disease(s) : Airway diseases, Thoracic oncology, Respiratory infections, Interstitial lung diseases, Pulmonary vascular diseases, Respiratory critical care, Respiratory intensive care, General respiratory patient care
Method(s) : Epidemiology, Endoscopy and interventional pulmonology, Physiology, Respiratory intensive care, General respiratory patient care, Imaging

Chairs : Reinhard Kubale (Pirmasens, Germany), El bieta Magdalena Grabczak (Warszawa, Poland)

PA377 A long distance chest ultrasound mentorship project - the initial evaluation
Diana Veronica Turcu (Iasi, Romania), Oana Melinte, Oana Miron, Radu Crisan, Traian Mihaescu, Tudor P. Toma

PA378 Clinical Use and Barriers of Thoracic Ultrasound: A Survey of Italian Pulmonologists
Alessandro Zanforlin (Bolzano (BZ), Italy), Francesco Tursi, Gianpietro Marchetti, Giulia Pellegrino, Beatrice Vigo, Andrea Smargiassi, Riccardo Inchingolo, Stefano Centanni, Stefano Gasparini, Francesco Blasi, Gino Soldati, Giuseppe Francesco Sferrazza Papa

PA379 Utility of bedside ultrasound chest in patients admitted into critical care unit
Anil Kumar Gandham (Rajam, Srikakulam (Andhra Pradesh), India), A.R. Gayathri

PA380 Diaphragmatic assessment in COPD patients by different modalities
Gehan Ali (Shibin Elkom, Egypt)

PA381 Assessment of ventilator-induced diaphragmatic dysfunction in COPD patients using transthoracic ultrasonography
Ali Abdelazeem Hasan (Assiut, Egypt), Shereen Farfghaly

PA382 Role of ultrasound in the decision algorithm for pneumothorax – a pilot study
Rita Boaventura (Porto, Portugal), Leonor Meira, David Coelho, António Morais, Hélder Novais E Bastos

PA383 Hyperpolarised 129Xenon MRI can identify ventilation abnormalities in patients suffering with primary spontaneous pneumothorax
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Mitch Chen, Tahreema Matin, Najib Rahman, Fergus Gleeson

PA384 Left atrial diameter of >49.5 mm indicates left main bronchus stenosis
Masatake Matsumoto (Miki, Japan), Kaori Kawase, Kazumi Kaneshiro, Kiyonobu Takatsuki

PA385 How to diagnose and quantify bronchiectasis for clinical studies using chest imaging
Jennifer Jane Meerburg (Rotterdam, Netherlands), Geerten Veerman, Stefano Aliberti, Harm Tiddens

PA386 Contribution of chest computed tomography in post infectious bronchiolitis obliterans in children
Samia Hamouda (Tunis, Tunisia), Ines Trabelsi, Fatma Khalsi, Imen Belhadj, Manel Ben Romdhane, Faten Tinsa, Khadija Bousetta
Comparison of 1H MRI and 3He MRI ventilation images in patients with cystic fibrosis and patients with lung cancer
Helen Marshall (Sheffield (South Yorkshire), United Kingdom), Andreas Voskrebzenz, Alberto Biancardi, Laurie Smith, Bilal Tahir, Jim Wild, Jens Vogel-Clausen

Is echogenic swirling seen on ultrasound predictive of pleurodesis outcome?
Maged Hassan (Alexandria, Egypt), Rachel M Mercer, Rachelle Asciak, Nicky Russel, Rob J Hallifax, John Wrightson, Najib M Rahman

Agreement between chest ultrasonography and chest X-ray in patients who have undergone thoracic surgery
Andrea Smargiassi (Roma (RM), Italy), Riccardo Incingolo, Marco Chiappetta, Leonardo Petracca Ciuavarella, Stefania Lopatietti, Giuseppe Maria Corbo, Stefano Margaritova, Luca Richeldi

Investigation of relationships between inflammation and brain disease in COPD
Mohani-Preet Kaur Bajaj (London, United Kingdom), Sachelle Ruickbie, Daniel Burrage, Catherine Spilling, James Dodd, Abhiram Prasad, Paul Jones, Emma Baker, Thomas Barrick

Lung ultrasound as useful tool to diagnose pulmonary atelectasis in children affected by neuromuscular disease
Nicola Ullmann (Roma (RM), Italy), Maria Luisa D’Andrea, Maria Beatrice Chiarini, Paolo Tomà, Claudio Cherchi, Martino Pavone, Virginia Mirra, Renato Cutrera

CT predictors of pulmonary hypertension in patients with severe COPD
Daniela Gompelmann (Heidelberg, Germany), Miranda Kirby, Konstantina Kontogianni, Benjamin Egenlauf, Ekkehard Gruenig, Claus-Peter Heussel, Ralf Eberhardt, Felix Jf Herth

The impact of CT dose reduction on inspiratory and expiratory lung density measures
Jessica C. Sieren (Iowa City, United States of America), Eric A. Hoffman

Pulmonary perfusion heterogeneity is reduced with hyperoxia in emphysema-susceptible smokers
Eric A. Hoffman (Iowa City, United States of America), Krishna S. Iyer, Amin Motahari, Alejandro P. Comellas, David W. Kaczka

Poster discussion: EUS-B and EBUS: optimal utilisation of the EBUS scope

Disease(s): Thoracic oncology, Interstitial lung diseases, Respiratory infections, Respiratory infections
Method(s): Endoscopy and interventional pulmonology, Surgery
Chairs: Jouke T. Annema (Amsterdam, Netherlands), Christophe Dooms (Leuven, Belgium)

Conventional aspiration vs biopsy needle for endosonography: the International Sarcoidosis Assessment (ISA) RCT
Laurence M.M.J. Crombag (Huizen, Netherlands), K Mooij, A Szubowski, Kg Tournoy, R Trisolini, J Sun, M Oki, M Ninaber, Ja Stigt, D Steinfeld, Br Jennings, M Liberman, S Bilaceroglu, Jt Annema

EBUS vs EUS-B for diagnosing sarcoidosis: the International Sarcoidosis Assessment (ISA) RCT
Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laurence Crombag, Artur Slubowski, Kurt Tournoy, Rocc Trisolini, Jiayuan Sun, Masahide Oki, Maarten Ninaber, Jos Stigt, Daniel Steinfeld, Barton Jennings, Moishe Liberman, Semra Bilaceroglu, Lizzy Wijmans, Peter Bonta, Jouke Annema

Endobronchial ultrasound for the diagnosis of centrally located intrapulmonary tumors: a systematic review and meta-analysis
Jolanda C. Kuijvenhoven (Leeuwarden, Netherlands), Fausto Leoncini, Laurence Crombag, Rene Spijker, Peter Bonta, Daniel Korevaar, Jouke Annema

EUS-B-FNA for the diagnosis of centrally located lung lesions.
Ida Skovgaard Christiansen (København N, Denmark), Jolanda Corina Kuijvenhoven, Uffe Bodtger, Therese Maria Henriette Nauer, Khalqi Ahmed, Jatinder Singhisdhu, Rafi Nessar, Goran Nadir Salih, Asbjorn Hoegholm, Jouke Tabe Annema, Paul Frost Clements

Accuracy and safety of EUS-B-FNA in the diagnosis of lung parenchymal lesions.
Michele Mondoni (Cremona (CR), Italy), Francesco Varone, Paolo Carlucci, Leonello Fuso, Claudia Sanfilippo, Daniele Magnini, Mirta Cavallini, Luca Richeldi, Stefano Centanni, Giovanni Sotgiu

Integration of the left adrenal into EUS-B - a prospective study.
Stephan Eisenmann (Halle, Germany), Jonathan Becker, Jane Winantea, Rüdiger Karpf-Wissel, Faustina Funke, Elena Stenzel, Kaid Darwiche

Safety and feasibility of the use of a long EBUS scope in the diagnosis of mediastinal lymphadenopathy and left adrenal gland enlargement - a pilot study
Maren Schuhmann (Heidelberg, Germany), Felix Herth, Ralf Eberhardt
PA403  Comparative efficacy of EBUS-TBNA versus EUS-b-FNA in unselected sarcoidosis patients
Ilya Sivokozov (Moscow, Russian Federation), Oksana Yun, Dmitry Sazonov, Dmitry Dedushkin, Natalya Karpina, Galina Evgushenko, Yuri Berezovsky

PA404  Awake endoscopic (oesophageal) ultrasound using the endobronchial scope (EUS-B) for patients with high risk for sedation
Omar Hakrush (Nazareth-Illit, Israel), johad khoury, Yochai Adir, Sonia Schneer, Amir Abramovich

PA405  The pulmonologist in the oesophagus: new opportunities
Therese Maria Henriette Naur (Copenhagen, Denmark), Ida Skovgaard Christiansen, Khaliq Ahmad, Jatinder Singh Sidhu, Rafi Nessar, Goran Nadir Salih, Asbjørn Høegholm, Peter Iwan Bonta, Jouke Tabe Annema, Uffe Bodtger, Paul Frost Clemensen

PA406  Guideline adherence and quality of (minimal) invasive mediastinal staging of NSCLC
Jelle Bousena (Breda, Netherlands), Ilse Huijbregts, Martijn Van Dorp, Fieke Hoeijmakers, Nicole Barlo, Niels Claessens, Anne-Marie Dimgemans, Wessel Hanselaar, Robert Kortekaas, Jan-Willem Lardenoije, Jos Maessen, Hermien Schreurs, Maggy Youssef-El Soud, Jouke Annema, Frank Van Den Broek

PA407  Influence of pathologist experience on EBUS-TBNA overall accuracy: A historical cohort study
Luis Fernando Giraldo-Cadavid (Bogota DC, Colombia), Maria Teresa Perez-Warnisher, Iker Fernandez-Navamuel, Javier Alfayate, Alba Naya, Pilar Carballosa, Andres Gimenez, Elena Cabezas, Francisco Martinez-Muñiz, Susana Alvarez, Javier Flandes

PA408  Unusual case of bilateral hemotympanum after endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA)
Usman Maqsood (Walsall, United Kingdom), Muhammad Imran Hasan, Mohammed Munavvar, Muhammad Badar Ganaie

PA409  Significance of the gross visual appearance of aspirates obtained with endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA)
Sahajal Dhoooria (Chandigarh (Uttar Pradesh), India), Nalini Gupta, Ritesh Agarwal, Ashutosh Aggarwal

PA410  Diagnostic yield of N3 hilar staging by endobronchial ultrasonography (EBUS) in lung cancer.
Jaume Bordas Martinez (barcelona, Spain), Jose Luis Vercher Conejero, Guillermo Rodriguez González, Cristina Martina Cabeza, Isabel Cachon Suarez, Noelia Cubero De Frutos, Rosa-Maria Lopez Lisbona, Marta Diez Ferrer, Cristina Gamez Cenzo, Roger Llatjos Sanuy, Jordi Dorca Sargatal, Antoni Rosell Gratacos

PA411  Lymphnode short-axis diameter (SAD) as a predictor of adequacy in EBUS-TBNA: size matters
Fausto Leoncini (Montespertoli (FI), Italy), Valentina Luzzi, Stefano Orsi, Michela Bezzi

PA412  A comparison of PET-CT and complete endosonographic nodal staging with use of 25 gauge needles in small nodes in NSCLC patients
Maciej Gnass (Myślenice, Poland), Stanisław Orzechowski, Joanna Sola, Piotr Kocoń, Lucyna Rudnicka, Juliusz Pankowski, Paweł Gwóźdź, Artur Szlubowski

7.3J Session 60 08:30 - 10:30
Poster discussion: Sleep-disordered breathing: cardiovascular consequences, epidemiology, phenotypes and comorbidities

Disease(s) : Sleep and breathing disorders  Interstitial lung diseases  Pulmonary vascular diseases
Method(s) : Cell and molecular biology  Epidemiology  Public health  Imaging  Physiology  General respiratory patient care
Chairs : Michael Arzt (Regensburg, Germany), Stefan-Marian Frent (Arad, Romania)

PA413  SERUM OSMOLARITY IS ASSOCIATED WITH SEVERITY OF OBSTRUCTIVE SLEEP APNEA SYNDROME: A NOVEL RISK FACTOR FOR CARDIOVASCULAR DISEASE
Asiye Kambay (Kayseri, Turkey), Mustafa Çalışkan, Halil Ibrahim Yakar, Sebahat Alışır Ecder

PA414  Ventricular structural changes in patients with sleep-disordered breathing (SDB) and myocardial infarction
Elvira Bondia Real (Valencia, Spain), ELVIRA BONDIA (VALENCIA, Spain), Jaime Signes-Costa Miñana, Jose Gavara, Santos Ferrer, Vicente Bodi, Paolo Racugno, Maria P. Lopez-Lereu, Jose Vicente Momeneu, Maria Pilar Bañuls, Emilio Servera

Thomas Gaisl (Zürich, Switzerland), Protazy Rejmer, Simon Stämpfli, Felix Tanner, Malcolm Kohler

PA416  The Effect of CPAP Therapy in Sleep Apnea Patients on Single Parameters of the Nocturnal Pulse Wave Analysis
Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Ludger Grote, Jan Hedner, Dirk Sommermeyer, Joachim H. Ficker, Georg Nilius, Winfried J. Randerath
<table>
<thead>
<tr>
<th>Session 61</th>
<th>08:30 - 13:00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Game Zone: GAME ZONE - SESSION 1</strong></td>
<td></td>
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<tr>
<td><strong>Ultrasound</strong>&lt;br&gt;Jayne Holme (Altrincham (Cheshire), United Kingdom)</td>
<td>431</td>
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<tr>
<td><strong>Interventional bronchoscopy</strong>&lt;br&gt;Lowie Vanfleteren (Horn, Netherlands), Julia N.S. d'Hooghe (Amsterdam, Netherlands), Cristina Avram (Manchester (Greater Manchester), United Kingdom)</td>
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<thead>
<tr>
<th>Session 68</th>
<th>10:45 - 12:45</th>
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<tr>
<td><strong>Grand round: Imaging Grand Round</strong>&lt;br&gt;Comprehensive update on (almost) all aspects of lung imaging</td>
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<td><strong>Aims</strong>: To promote a multidisciplinary approach to diagnosis of wide variety of lung diseases. To provide an update in the diagnosis and treatment of various lung diseases. To give a basic and differential diagnosis when facing with imaging studies.</td>
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</table>
**Disease(s):** Interstitial lung diseases  
**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care, Imaging, Physiology, Pulmonary function testing, Respiratory intensive care, Surgery  
**Tag(s):** Clinical  
**Target audience:** Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Paediatrician, Pathologist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician  
**Chairs:** Johan Coolen (Leuven, Belgium), Nicolas Girard (Paris, France)

### Session 69 10:45 - 12:45

**Symposium: State of the art session: Pulmonary vascular diseases**

**Aims:** To provide state of the art information on different aspects of pulmonary vascular diseases, including pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension, acute pulmonary thromboembolism and right heart function. The launch of the new Assembly 13 “Pulmonary Circulation” a few months after the 6th Pulmonary Hypertension World Symposium (Nice, France, February 2018) presents a unique opportunity for an update on pulmonary vascular diseases.

**Disease(s):** Pulmonary vascular diseases  
**Method(s):** General respiratory patient care  
**Tag(s):** Clinical  
**Target audience:** Clinical researcher, Student, Adult pulmonologist/Clinician  
**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)

#### Session 69

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Solid and subsolid pulmonary nodules: differential diagnosis and radiological approach to diagnosis</td>
<td>Mathias Prokop (Nijmegen, Netherlands)</td>
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<tr>
<td>11:15</td>
<td>Lung cancer: staging with respect to the new 8th TNM-classification</td>
<td>Cornelia Schaefer-Prokop (Amersfoort, Netherlands)</td>
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<td>11:45</td>
<td>Chronic obstructive pulmonary disease: phenotyping and differential diagnosis</td>
<td>Philippe Grenier (Paris Cedex 13, France)</td>
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<tr>
<td>12:15</td>
<td>Diagnostic criteria for idiopathic pulmonary fibrosis</td>
<td>Nicola Sverzellati (Parma (PR), Italy)</td>
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### Session 70 10:45 - 12:45

**Symposium: Courmand lecture: new paradigms in extracorporeal lung assistance**

**Aims:** Attendees will gain new insights in the physiological mechanisms by which protective/ultra-protective ventilation and support on CO2 washout promote the outcomes of critically ill respiratory patients who are being treated with extracorporeal membrane oxygenation (ECMO) devices. Attendees will also be updated on the clinical applications of high-flow (i.e., ECMO) and low-flow (i.e., extracorporeal carbon dioxide removal [ECCO2R]) devices in severe hypoxaemic and hypercapnic respiratory failure.

**Disease(s):** Respiratory critical care  
**Method(s):** Physiology, Respiratory intensive care  
**Tag(s):** Clinical  
**Target audience:** Clinical researcher, Critical/Intensive care physician, Paediatrician, Patient, Scientist (basic, translational), Adult pulmonologist/Clinician  
**Chairs:** Murali Shyamsundar (Belfast (Belfast), United Kingdom), Alexandre Demoule (Paris, France)

#### Session 70

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Pulmonary arterial hypertension</td>
<td>Marc Humbert (Paris, France)</td>
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<td>11:15</td>
<td>Acute pulmonary embolism</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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<td>11:45</td>
<td>Chronic thromboembolic pulmonary hypertension</td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<td>12:15</td>
<td>Right ventricular function and pulmonary haemodynamics</td>
<td>Harm Jan Bogaard (Amsterdam, Netherlands)</td>
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**ERS 2018 International Congress**

**DETAILED PROGRAMME**

**SUNDAY 16 SEPTEMBER, 2018**

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10.09.2018
Session 71 10:45 - 12:45

Symposium: Towards understanding and managing chronic cough

Aims: to provide a comprehensive update regarding the physiological understanding and clinical management of patients with chronic cough who present in both primary and secondary care settings.

Disease(s): Airway diseases  Sleep and breathing disorders

Method(s): General respiratory patient care  Physiology  Pulmonary function testing

Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Imran Satia (Hamilton (ON), Canada), Graham H. Bothamley (London, United Kingdom), Marta Almagro (Barcelona, Spain)

10:45 What is cough and what should be measured? The physiology of cough
Giovanni A. Fontana (Vaglia (FI), Italy)

11:15 Cough assessment and management in primary care
Alan Kaplan (Stouffville (ON), Canada)

11:45 Cough management in secondary care - airways disease and gastro-oesophageal reflux
Akio Niimi (Nagoya, Japan)

12:15 Update on childhood cough
Bruce Rubin (Richmond, United States of America)

Session 72 10:45 - 12:45

Symposium: Dyspnoea: a multidimensional and multidisciplinary approach

Aims: to provide an overview of the state-of-the-art advances in the multidimensional and multidisciplinary aspects of dyspnoea by focusing on four themes: the neurophysiology of dyspnoea, exercise and dyspnoea, the multidimensional assessment of dyspnoea, and the clinical impact and management of dyspnoea

Disease(s): Airway diseases  Sleep and breathing disorders

Method(s): General respiratory patient care  Physiology  Public health  Pulmonary function testing  Respiratory intensive care

Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Thoracic oncologist, Trainee, Adult pulmonologist/Clinician

Chairs: Pierantonio Laveneziana (Paris Cedex 13, France), Janelle Yorke (Manchester (Greater Manchester), United Kingdom)

10:45 Multidimensional assessment methods for dyspnoea profiling in clinical practice and laboratory research
Capucine Morelot-Panzini (La Varenne Saint-Hilaire, France)

11:12 Patient testimonial
Kjartan Mogensen (Reykjavik, Iceland)

11:24 Affective and emotional dimensions of dyspnoea in chronic lung disease
Andreas von Leupoldt (Leuven, Belgium)

11:51 Common mechanisms of exertional dyspnoea in chronic lung disorders
Denis O'Donnell (Kingston (ON), Canada)

12:18 Non-pharmacological interventions for the management of breathlessness
Miriam Johnson (Hull (North Humberside), United Kingdom)
Hot topics: Imminent global problems in lung cancer require joint action: time for an international alliance!

**Aims:** Lung cancer constitutes a substantial global burden for not just patients but also professionals and healthcare systems. Multiple scientific international and national initiatives are tackling the various problems associated with this debilitating and still deadly disease. ALA/ATS, ESMO, IASLC, JRS and ERS will highlight the most recent aspects of care from their individual perspectives, with the aim of building an international lung cancer alliance.

**Disease(s):** Interstitial lung diseases, Thoracic oncology

**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, Imaging, Public health, Surgery

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Mina Gaga (Athens, Greece), Jan van Meerbeeck (Edegem (Antwerp), Belgium)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Official ceremony for signature of joint agreement between ERS and IALSC (472)</td>
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<tr>
<td>10:45</td>
<td>Key issues in optimising and implementing low-dose computed tomography lung cancer-screening programmes (473)</td>
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<td>David Baldwin (Nottingham (Nottinghamshire), United Kingdom)</td>
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<tr>
<td>11:09</td>
<td>The ALA/ATS implementation guide on lung cancer screening (474)</td>
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<td>Carey C. Thomson (Boston, United States of America)</td>
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<td>11:33</td>
<td>IASLC PD-L1 Blueprint Project (475)</td>
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<td>Fred R. Hirsch (Aurora, United States of America)</td>
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<td>11:57</td>
<td>The Asian experience in co-existing lung cancer and interstitial lung disease (476)</td>
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<td>Yoichi Nakanishi (Fukuoka, Japan)</td>
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<td>12:21</td>
<td>Lung cancer immunotherapy (477)</td>
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<td>Solange Peters (Lausanne, Switzerland)</td>
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**Session 74**

**Oral presentation: Mechanisms that underlie exercise limitation in various respiratory diseases**

**Disease(s):** Pulmonary vascular diseases, Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Epidemiology

**Chairs:** J. Alberto Neder (Kingston (ON), Canada), Zafeiris Louvaris (Leuven, Belgium)

| OA478 | Effects of maximal volitional hyperpnoea on exercise tolerance and locomotor muscle fatigue (478) |
|       | Michael Johnson (Nottingham (Nottinghamshire), United Kingdom), Robert Needham, Ryan Williams, Jack Ashby, Neil Williams, Dean Mills, Graham Sharpe |
| OA479 | Sensory consequences of critical inspiratory constraints during exercise in pulmonary arterial hypertension (479) |
|       | Franciele Plachi (Porto Alegre, Brazil), Rui Dorneles, Bianca Feldmann, Vinicius Timm, Igor Benedetto, Marcelo Gazzana, José Alberto Neder, Danilo Cortozi Berton |
| OA480 | Impaired cerebral oxygenation and exercise tolerance in patients with severe obstructive sleep apnoea syndrome (480) |
|       | Mathieu MARILLIER (Echirolles, France), Mathieu Gruet, Sebastien Baillieul, Bernard Wuyam, Renaud Tamisier, Patrick Levy, Jean-Louis Pepin, Samuel Verges |
| OA481 | Thoracoabdominal asynchrony contributes to exercise limitation in mild asthmatic subjects (481) |
|       | Andrea Aliverti (Milan, Italy), Guilherme Fregonezi, Antonio Sarmento, Janaina Pinto, Antonella Lomauro, Vanessa Resqueti |
| OA482 | The relationship between lung function and blood pressure and the mediation role of physical activity and cardiopulmonary fitness in adults: cross-sectional results from the EPIMOV study (482) |
|       | Victor Dourado (Santos (SP), Brazil), Flávio Almeida, Vitor Almeida, Evandro Sperandio, Marcello Romiti, Antônio Gagliardi, Rodolfo Arantes |
| OA483 | Exercise ventilatory inefficiency in adults with Cystic Fibrosis with normal to moderate impairment in lung function (483) |
|       | Marcello Di Paolo (Roma (RM), Italy), Elisabetta Teopompi, Daniela Savi, Ernesto Crisafulli, Chiara Longo, Panagiota Tzani, Francesco Longo, Antonella Ielpo, Giovanna Pisi, Giuseppe Cimino, Alfredo Chetta, Paolo Palange |
OA484  Exercise capacity in patients with cystic fibrosis vs non-cystic fibrosis bronchiectasis  
Ronen Bar-Yoseph (Haifa, Israel), Anat Ilivitzki, Michal Gur, Gur Mainzer, Fahed Hakim, Galit Livnat, Zeev Schnapp, George George Shalloufeh, Merav Zucker-Toledano, Yael Subar, Lea Bentur

7.3Z2  Session 75  10:45 - 12:45
Symposium: Multidisciplinary approach to ground-glass opacities
Aims: to review the current guidelines regarding the management and follow-up of ground-glass opacity (GGO) nodules in the light of experience from screening trials; and to describe the use of minimally invasive tissue biopsies and the marking of GGO nodules for surgery.

Disease(s): Interstitial lung diseases  Thoracic oncology
Method(s): Surgery
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Radiologist, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Dragan R. Subotic (Basel, Switzerland), Paola Rogliani (Roma (RM), Italy)

10:45  Ground-glass opacity - computed tomography features
Sara Piciucchi (Forlì, Italy)

11:15  Differential diagnosis of ground-glass opacity lung nodules
Sara Colella (Teramo (TE), Italy)

11:45  Radioguided video-assisted resection of non-palpable solitary pulmonary nodule/ground-glass opacity
Luca Bertolaccini (Bologna (BO), Italy)

12:15  Outcomes of surgical resections of pulmonary ground-glass opacity nodules
Yong Soo Choi (Seoul, Republic of Korea)

7.3K  Session 76  10:45 - 12:45
Symposium: Gene-environment interactions in the omics era
Aims: to review current knowledge about gene-environment (GxE) interactions in respiratory disease, which are believed to underlie the well-known fact that individuals respond differently to various environmental exposures such as tobacco smoke and air pollutants; to outline the clinical implications of what we know about GxE interactions and the future directions for studies and public health actions; to describe basic concepts about GxE interactions, provide examples of successful GxE studies in the literature, highlight methodological challenges and describe optimal study design. In particular, the GxE interactions in the omics era will be reviewed, namely, how these interactions are being evaluated at the DNA, epigenetic, transcriptomic and proteomic level.

Disease(s): Airway diseases  Paediatric respiratory diseases
Method(s): Cell and molecular biology  Epidemiology  Public health
Tag(s): Translational
Target audience: Paediatrician, Policy maker, Scientist (basic, translational)
Chairs: H. Marike Boezen (Groningen, Netherlands), Klaus Bonnelykke (Allerød, Denmark)

10:45  The optimal study design for identifying gene-environment interaction effects in large-scale studies
Florence Demenais (Paris, France)

11:15  Using omics data to detect gene-environment interactions - results from studies on air pollution and asthma
Erik Melén (Stockholm, Sweden)

11:45  Lessons in gene-environment interactions from the UK Biobank - clinical implications
Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom)

12:15  Identifying individuals who are susceptible to the effects of environmental exposures - implications for public health actions
Isabella Annesi Maesano (Paris, France)

7.3Q  Session 77  10:45 - 12:45
Oral presentation: Pleural disease: diagnosis, monitoring and management
Disease(s): Thoracic oncology
Method(s): General respiratory patient care  Endoscopy and interventional pulmonology  Imaging  Physiology
The DIAPHRAGM study: Diagnostic and prognostic biomarkers in the rational assessment of Mesothelioma
Selina Tsim (Glasgow (Glasgow), United Kingdom), Caroline Kelly, Laura Alexander, Ann Shaw, James Paul, Rosemary Woodward, John Foster, Kevin Blyth

OA494
Recurrence rates in primary spontaneous pneumothorax: results of systematic review
Steven Walker (Bristol (Avon), United Kingdom), Paul White, Nick Maskell

OA495
Results of pre-EDIT; a randomised feasibility trial of Elastance-Directed Intra-pleural catheter or Talc Pleurodesis (EDIT) in malignant pleural effusion
Kevin Blyth (Glasgow (Glasgow), United Kingdom), Geoffrey Martin, Andrew Kidd, Selina Tsim, Rosmary Woodward, Tracey Hopkins, John Foster, Philip Mcloone

OA496
Needle Based Confocal Laser Endomicroscopy (nCLE) for Diagnosing Malignant Pleural Mesothelioma
Lizzy Wijmans (Amsterdam, Netherlands), Maria Disselhorst, Daniel De Bruin, Joris Roelofs, Onno Mets, Peter Bonta, Paul Baas, Jouke Annema

OA497
Intrapleural anaesthesia for medical thoracoscopy - a pilot study
Mahmoud Reda (Alexandria, Egypt), Mahmoud Reda (Cairo, Egypt), Asmaa Gomaa, Maged Hassan, Mostafa Shaheen, Salah Sorour

OA498
Does talc increase risk of non-draining septated pleural effusion after indwelling pleural catheter insertion?
Rachelle Asciak (Oxford (Oxfordshire), United Kingdom), Rachel M Mercer, Robert J Hallifax, Maged F Hassan, Nikolaos Kanellakis, John M Wrightson, Ioannis Psallidas, Najib M Rahman

OA499
68Ga-DOTA-NT-20.3. An innovative probe for neurotensin receptor-positive tumor imaging in the diagnosis of malignant pleural mesothelioma
Manuela Marenco (PAVIA (PV), Italy), Vanessa Frangipane, Marina Hodolic, Simona Inghilleri, Giulia Maria Stella, Federica Meloni, Lorenzo Lodola

7.3M Session 78 10:45 - 12:45

Oral presentation: A fresh view on airway differentiation and regeneration
Disease(s): Airway diseases, Respiratory infections, Interstitial lung diseases
Method(s): Physiology, Cell and molecular biology

OA500
Late Breaking Abstract - Lung extracellular matrix hydrogel as bioink for 3D bioprinting: a model for studying cell-matrix crosstalk
Jorge Otero (Barcelona, Spain), Bryan Falcons, Kest Verstappen, Esther Marhuenda, Isaac Almendros, Daniel Navajas, Ramón Farré Ventura

OA501
LSC - 2018 - miR449 protects airway cilia and healthy lung ageing
Muriel Lizé (Göttingen, Germany), Merit Wildung (mwildun1@gwdg.de / University Medical Center Goettingen, Clinic for Cardiology and Pneumology,Goettingen), Christian Herr (christian.herr@uks.eu / Department of Internal Medicine V-Pulmonology, Allergology , Respiratory and Environmental Medicine, Saarland University,Homburg), Mihai Alevra (malevra@gwdg.de / University of Goettingen,Goettingen), Dietmar Riedel (driedel@gwdg.de / Max Planck for Biophysical Chemistry,Goettingen)

OA502 COPD epithelial phenotype shows partial reversibility in long-term primary epithelial ALI-cultures
François Carlier (Watermael-Boitsfort, Belgium), Bruno Detry, Yves Sibille, Charles Pilette

OA503 cKIT cells in human bronchial epithelium in asthma
Asuncion Martinez Anton (Marseille, France), Delphine Gras, Céline Garulli, Patrice Dubreuil, Pascal Chanez

OA504 Differentiation of Induced Pluripotent Stem Cells (iPSC) into human bronchial epithelium from healthy and severe COPD patients.
Engi Ahmed (Montpellier, France), Said Assou, Mathieu Fieldes, Isabelle Vachier, Pascal Chanez, John De Vos, Arnaud Bourdin

OA505 Novel cell types and altered cell states in asthma revealed by single-cell RNA sequencing of airway wall biopsies.
Martijn C. Nawijn (Groningen, Netherlands), Orestes Carpaij, Felipe Vieira Braga, Marijn Berg, Sharon Brouwer, Gozde Kar, Sarah Teichmann, Maarten Van Den Berge

OA506 From Dictyostelium to human airway epithelium: adenine nucleotide translocase enhances cellular respiration and ciliary function disrupted by cigarette smoke
Jennifer Nguyen (Baltimore, United States of America), Corrine Kliment, Yawen Lu, Steven Claypool, Sumana Raychaudhuri, Shigeki Watanabe, Pablo Iglesias, Venkataramana Sidhaye, Douglas Robinson
OA507 Functional analysis of PIERCE1, in motile ciliogenesis
Priyanka Anujan (SHEFFIELD, United Kingdom), Sudipto Roy, Lynne Bingle, Colin D Bingle

OA508 Prevalence and effect of early lower airway infections in cystic fibrosis
Oded Breuer (Perth, Australia), André Schultz, Lidija Turkovic, Sarath Ranganathan, Stephen Stick, Daan Caudri

OA509 Prospective case-control study describing the lower airway microbiome in pre-school children with cystic fibrosis
Barry Linnane (Co. Limerick, Ireland), Paul Cotter, Orla O'Sullivan, Fiona Crisbie, Aaron Walsh, Julie Renwick, Paul McNally

OA510 Antibody testing for Mycobacterium avium complex infection in cystic fibrosis patients
Cecilie Ravnholt (Copenhagen N, Denmark), Tavs Qvist, Tania Pressler, Mette Kolpen, Niels Høiby

OA511 Detection of Pseudomonas aeruginosa in exhaled breath of cystic fibrosis patients
Anne H. Neerincx (Amsterdam, Netherlands), Paul Brinkman, Tim Van Der Gouwe, Tamara Paff, Niki Fens, Marije G. Gerritsen, Eric Haarman, Wim M.C. Van Aalderen, Van Der Zee & The Amsterdam CF Research Group

OA512 Distinct volatile markers from Cystic Fibrosis pathogens with Secondary Electrospray Ionisation High-resolution Mass Spectrometry (SESI-HRMS)
Astghik Baghdasaryan (Yerevan, Armenia), Tobias Bruderer, Simona Mueller, Ronja Weber, Naemi Haas-Baumann, Srđjan J. Micic, Christoph Berger, Renato Zenobi, Alexander Möller

OA513 Randomized, double-blind, controlled trial of preventive inhalation of hypertonic saline in infants with CF (PRESIS)
Mirjam Stahl (Heidelberg, Germany), Mark Wielpuetz, Isabell Ricklefs, Simon Graeber, Olaf Sommerburg, Gesa Diekmann, Christian Dopfer, Sandra Barth, Anne Schlegtendal, Cordula Koerner-Rettberg, Lutz Nachrlich, Burkhard Tuenmler, Matthias Kopp, Marcus Mall

OA514 Targeting aENaC with an epithelial RNAi trigger delivery platform for the treatment of cystic fibrosis
Erik Bush (Madison, United States of America), Anthony Nicholas, Tao Pei, Ine Kuipers, Weijun Cheng, Holly Hamilton, Julia Hegge, Xiaokai Li, Agnieszka Glebocka, Rui Zhu, Bo Chen, Philip Kuehl, Thomas Schluep, Zhen Li
Late Breaking Abstract - TGF-ß impairs fibroblast ability to support lung organoid formation: pharmacological restoration by GSK-3 inhibition and secreted niche factor supplementation
Reinoud Gosens (Groningen, Netherlands), John-Poul Ng-Blichfeldt, Victor Guryev, Pieter Hiemstra, Tristan De Jong, Rosa Kortekaas, Jan Stolk, Melanie Königshoff

Late Breaking Abstract - Daily physical activity in patients with severe eosinophilic asthma and the effect of anti-IL5 therapy.
Marios Panagiotou (Athens, Greece), Sotiris Gyftopoulos, Serafim Nanas, Nikolaos Koulouris, Rovina Nikoletta

Late Breaking Abstract - Explore the effective dose of bronchodilator nebulization via high flow nasal cannula in adult COPD and asthma patients
Jie Li (Chicago, United States of America), Jie Li, Maierbati Hadeer, Minghua Zhao, James Fink

Session 81 10:45 - 12:45
Poster discussion: Challenges in treating tuberculosis and nontuberculous mycobacteria

Risk score of drug-induced liver injury among new tuberculosis patients
Diana Ivanova (Moscow, Russian Federation), Diana Ivanova, Sergey Borisov

Ursodeoxycholic acid (UDCA) reverses hepatotoxicity of multidrug treatment of mycobacterial infections
Susanne Lang (Gera, Germany), Sven Rostig, Helmut Schiffl

Efficacy of small-volume plasmapheresis application for MDR/XDR TB patients with medicinal live damage?
Anastasia Samoilova (Moscow, Russian Federation), Eduard Vaniev, Irina Vasilyeva, Olga Lovacheva, Atadzhan Ergeshov

The frequency of cases of hepatotoxic reactions in first diagnosed patients with pulmonary tuberculosis
Alexey Kazakov (Moscow, Russian Federation), Galina Mojokina, Sergey Smerdin, Valentina Aksenova, Nadejda Klevno

DETERMINATION OF THE INDIVIDUAL TYPE OF BIOTRANSFORMATION OF ISONIAZID IN PATIENTS WITH LUNG TUBERCULOSIS BY MOLECULAR TESTS
Ksenia Galkina (Moscow, Russian Federation), Elena Nosova, Maria Krasnova, Anastasia Khalhalina, Aleksandra Isakova, Svetlana Safonova

A review of in-house Video Observed Therapy (VOT) for patients with active tuberculosis(TB), in a London teaching hospital.
Krishna Sivakumaran (London, United Kingdom), Kavina Manalan, Michael Nayagam, Beth Villanueva, Catherine Cosgrove, Anne Dunleavy

Video observed treatment for tuberculosis patients in Belarus.
Alena Skrahina (Minsk region, Belarus), Heorhi Sinkou, Vasilyi Akulov, Viacheslav Grankov, Alistair Story, Henadz Hurevich, Masoud Dara

Does hospitalization influence tuberculosis’ treatment outcome? – A Portuguese nationwide study
Rita Boaventura (Porto, Portugal), João Vasco Santos, João Viana, Alberto Freitas, Raquel Duarte

Tuberculosis in women: A reflection of gender inequity
Jyoti Bajpai (Lucknow (Uttar Pradesh), India), Kanchan Srivastava, Surya Kant, Apoorva Narain

Tuberculosis and tobacco: is there any epidemiological association?
Eva Filipa de Sousa Antunes Dias Padrão (Braga, Portugal), Olena Oliveira, Óscar Felgueiras, Ana Rita Gai, Raquel Duarte

Comparative study of tuberculosis in smokers and non-smokers
Fatimazahra Chaibate (CASABLANCA, Morocco), Hasna Jabri, Wiam Elkhattabi, Hicham Afif

A new type of Mediterranean mycobacteriosis
Kathleen Jahn (Basel, Switzerland), Veronika Baettig, Helena Seth-Smith, Michael Tamm, Adrian Egli

Characterization of drug susceptibility of nontuberculous mycobacteria of M.chelonae and M.fortuitum complexes.
Marina Makarova (Nizhnekamsk (Republic Tatarstan), Russian Federation), Elena Khachaturiants, Maria Krasnova, Ksenia Galkina, Julia Mikhailova, Lidia Guntupova, Vitalii Litvinov
PA536  
Drug susceptibility of slowly growing nontuberculous mycobacteria (sNTM) isolated in the European part of Russian Federation  
Tatiana Smirnova (Moscow, Russian Federation), Atadzhon Ergeshov, Sofya Andreevskaya, Irina Andrievskaya, Ekaterina Kiseleva, Elena Larionova, Larisa Chernousova

PA537  
Significance of Mycobacterium Avium Complex (MAC) isolation in bronchoscopic samples  
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Sandra Pedrero Tejada, Idoia Salinas Garrido, Elena Urra Zabildegoitia, Isabel Lopez Aranaga, Rafael Zalacain Jorge

PA538  
Association between injectable aminoglycoside treatment duration and outcomes in cavitary Mycobacterium avium complex lung disease  
Ock-Hwa Kim (Seoul, Republic of Korea), Byoung Soo Kwon, Younsuck Koh, Woo-Sung Kim, Jin-Woo Song, Yeon-Mok Oh, Sang-Do Lee, Sei Won Lee, Jae-Seung Lee, Chae-Man Lim, Chang-Min Choi, Jin-Won Huh, Sang-Bum Hong, Tae Sun Shim, Kyung-Wook Jo

PA539  
The effect of alcohol consumption in the treatment of nontuberculous mycobacteria  
Maria Gabriel Gonçalves Jacob (Porto, Portugal), Ricardo Silva, Rita Gaio, Raquel Duarte, Bethany Ahlers (Bethany.Ahlers@uvm.edu / University of Vermont, Vermont Genetics Network, Burlington, VT), Caterina Hood (Caterina.Hood@uvm.edu / University of Vermont, Vermont Genetics Network, Burlington, VT), Bin Deng (Bin.Deng@uvm.edu / University of Vermont, Department of Biology, Burlington, VT), Ying-Wai Lam (Ying-Wai.Lam@uvm.edu / University of Vermont, Department of Biology, Burlington, VT), Erica Beatman (BeatmanE@NJHealth.org / National Jewish Health, Denver, CO), Kelly Schweitzer (SchweitzerK@NJHealth.org / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine, Denver, CO), Irina Petroch (Petrachel@NJHealth.org / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine, Denver, CO), Daniel Weiss (daniel.weiss@uvm.edu / University of Vermont, College of Medicine, Burlington, VT), Darcy Wagner (darcy.wagner@med.lu.se / Lund University, Lund)

Terminal 7  Session 82  10:45 - 12:45

Oral presentation: Clinical news in idiopathic interstitial pneumonias

Disease(s) :  
Interstitial lung diseases  Thoracic oncology

Method(s) :  
Respiratory intensive care  Transplantation  General respiratory patient care  Endoscopy and interventional pulmonology  Cell and molecular biology  Imaging  Epidemiology

Chairs :  
Vincent Cottin (Lyon, France), Sara Tomassetti (Forli, Italy)

OA540  
Late Breaking Abstract - Prevalence and clinical significance of antinuclear antibody (ANA) in IPF: analysis from ESTAIR study  
Peter Wung (Sugar Land, United States of America), Ganesh Raghu, Bruno Crestani, Luca Richeldi, Corinne Esperet, Christina Soubrane

OA541  
Four metre gait speed (4MGS) predicts mortality and hospitalisation in IPF  
Claire M. Nolan (London, United Kingdom), Matthew Maddocks, Toby M Maher, Sarah E Jones, Suhani Patel, Ruth E Barker, Peter M George, Paul Cullinan, William D-C Man

OA542  
A global perspective on acute exacerbation of idiopathic pulmonary fibrosis (AE-IPF): results from an international survey  

OA543  
Associations of interstitial lung abnormalities with physical function measures  
Gisli Thor Axelsson (Selfoss, Iceland), Rachel K Putman, Ezra R Miller, Tetsuro Araki, Sigurdur Sigurdsson, Elias F Gudmundsson, Gudny Eiriksdottir, Kristin Siggeirsdottir, Thor Aspelund, Lenore J Launer, Tamara B Harris, Hiroto Hatabu, Vilmundur Gudnason, Gary M Hunninghake, Gunnar Gudmundsson

OA544  
INTERSTITIAL LUNG DISEASE IN A LUNG CANCER SCREENING PROGRAM: PREVALENCE AND ASSOCIATION WITH CANCER.  
Aranzazu Campo Ezquibela (Pamplona (Navarra), Spain), Maia Merino Hernandez, Jessica Gonzalez Gutierrez, Marta Marin Otto, Ana Belen Alcaide Ocana, Juan Pablo De Torres Tajes, Javier Zulueta Frances

OA545  
Longitudinal outcomes of patients enrolled in a phase 1b clinical trial of the Adipose Derived Stromal Cells-Stromal Vascular Fraction in Idiopathic Pulmonary Fibrosis  
Paschalis Ntolios (Alexandroupolis, Greece), Eleni Manoloudi, Argyrios Tzouvelekis, Evangelos Bouros, Paschalis Steiropoulos, Stavros Anevlavis, Demosthenes Bouros, Marios Froudarakis

OA546  
Nintedanib plus sildenafil in patients with idiopathic pulmonary fibrosis (IPF): the INSTAGE trial  
Martin Kolb (Hamilton (ON), Canada), Athol Wells, Jürgen Behr, Luca Richeldi, Birgit Schinzel, Manuel Quaresma, Susanne Stowasser, Ganesh Raghu, Fernando J Martinez
Contribution of mutations in genes of the surfactant system to idiopathic interstitial pneumonia (IIP)


Session 83

Poster discussion: Assessing pathophysiology in children

Disease(s): Sleep and breathing disorders

Method(s): Imaging, Endoscopy and interventional pulmonology, General respiratory patient care, Epidemiology, Physiology

Chairs: Shannon Simpson (Perth (WA), Australia), Peter Coss (Dublin (8, Ireland))

PA548 Evaluating the respiratory health of children with spinal muscular atrophy (SMA) type 1 on Nusinersen
Chris Grime (Liverpool, United Kingdom), Lisa Edel, Victoria Robinson, Gareth Rendel, Francois Abel, Elaine Chan

PA549 Comparison of oxygen desaturation index and apnoea-hypopnoea index for categorising OSA in children.
Courtney Dos Santos (London, United Kingdom), Martin Samuels, Aidan Laverty, Emma Raywood

PA550 Residual obstructive sleep apnoea symptoms after adenotonsillectomy in children
Mahesh Babu Ramamurthy (Singapore, Singapore), Michael T C Lim, Daniel Y.T Goh, Woei Shyang Loh, Maria Jimenez

PA551 Evaluation of the sleep history in predicting sleep disordered breathing in children
Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), David Luyt

PA552 Obstructive events in children with Prader-Willi syndrome occur predominantly during REM sleep
Athanassios G. Kaditis (Athens, Greece), Anastasia Polytaechoi, Georgia Katsouli, Marina Tsaousoglou, Polytimi Panaghiotopoulou-Gartagani

PA553 Can Drug-Induced Sleep Endoscopy in children predict OSA persistence after adenotonsillectomy
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Jefferson Barros, Antonio Carlos Marão

PA554 Usefulness of symbolic dynamics to characterize oximetric recordings from a smartphone in the detection of pediatric sleep apnea
Daniel Alvarez (Valladolid, Spain), Ainara Garde, Andrea Crespo, Fernando Vaquerizo-Villar, Gonzalez C Gutiérrez-Tobal, Ana Cerezo-Hernández, J Mark Ansermino, Guy A Dumont, Roberto Hornero, Félix Del Campo

PA555 Diagnosis of peripheral obstructive pattern in children
Nicole Beydon (Paris, France), Edouard Dufetelle

PA556 Effect of preterm-birth on later bronchial hyper-responsiveness: a systematic review.
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), Thomas Halvorsen, Hege Clemm, Sailesh Kotecha

PA557 Ventilatory efficiency during exercise: data from a contemporary cohort of preterm-born children
John Lowe (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Michael Cousins, Sailesh Kotecha

PA558 Exercise capacity and response of exercise-induced bronchoconstriction to bronchodilator in preterm-born children with low lung function
Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Mark Williams, John Henderson, Sailesh Kotecha

PA559 Forced oscillation technique to assess exercise and post-exercise bronchodilator responses in preterm-born children
Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Bence Radics, Dorotyta Czovek, Zoltan Hantos, Peter Sly, John Henderson, Sailesh Kotecha

PA560 Effect of late preterm birth on Lung Clearance Index and respiratory physiology in school age children
Karim Yaacoby-Bianu (Haifa, Israel), Moran Toder Plonsky, Michal Gur, Amir Kugelman, Lea Bentur

PA561 Effect of respiratory muscle function exercise capacity of school-aged children born preterm
Sotirios Fouzas (Patras, Greece), Aggeliki Vreniotti, Gabriel Dimitrionu
PERINATAL INFLAMMATION AND INTRAUTERINE GROWTH RETARDATION ARE BOTH ASSOCIATED WITH LUNG FUNCTION IMPAIRMENT AT 12 YEARS OF AGE IN VERY PRETERM INFANTS
Cecilia Hagman (Lund, Sweden), Ingrid Pupp-Hansen, Lars Bjorklund, Ellen Tufvesson

Feasibility of specific ventilation imaging using oxygen enhanced magnetic resonance imaging (OEMRI) in adolescents.
Rathnini Jayasuriya (Sydney (NSW), Australia), Terri Walker, Rui Sá, Paul Robinson, Greg King, Kim Prisk, Rebecca Theilmann, Emma Coward, Brendan Kennedy, Hiran Selvadurai

Functional dead space in children with cystic fibrosis or primary ciliary dyskinesia.
Florian Singer (Bern, Switzerland), Benjamin Stettler, Jeremias Wolfensberger, Insa Korten, Carmen Casaulta, Sylvia Nyilas, Cordula Retterberg, Kathryn Ramsey, Philipp Latzin

Natural variability of lung clearance index and FEV1 in children with Primary Ciliary Dyskinesia
Florian Singer (Bern, Switzerland), Anne Schlegentadal, Sylvia Nyilas, Philipp Latzin, Mieke Boon, Cordula Koerner-Retterberg

7.2B Session 84 10:45 - 12:45
Poster discussion: COPD phenotypes: 1 antitrypsin deficiency and beyond

Disease(s): Pulmonary vascular diseases, Airway diseases, Respiratory critical care, Respiratory infections, Respiratory infections

Method(s): Imaging, Epidemiology, General respiratory patient care, Cell and molecular biology

Chairs: Elizabeth Sapey (Birmingham (West Midlands), United Kingdom), Laura Fregonese (London, United Kingdom)

Late Breaking Abstract - Resistomics of sputum from COPD and healthy subjects reveals bacterial load-related prevalence of antimicrobial-resistance-encoding genes
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Koirobi Haldar, Mona Bafadhel, Vijay Mistry, Leena Goerge, Marco Oggiioni, Mike Barer, Chris Brightling

Late Breaking Abstract - Identification of obstructive lung disease in Austrian pharmacies - a multi-site, cross-sectional case finding study
Philipp Krug (Salzburg, Austria), Maria Flamm, Bernd Lamprecht, Bernhard Kaiser, Michael Studnicka

Effect of exacerbations on lung density in alpha-1 antitrypsin deficiency: Subgroup analysis of the RAPID trial programme
Charlie Strange (Charleston, United States of America), N. Gerard McElvaney, Claus Vogelmeier, Michael Fries, Jinesh Shah, Amgad Shebl, Oliver Vit, Marion Wencker, Kenneth R. Chapman

Screening of chronic liver disease by transient elastography in patients with lung disease associated with alpha-1 antitrypsin deficiency.
Miriam Barrecheguren Fernandez (Barcelona, Spain), Mónica Pons, Maria Torres, Ramón Antonio Tubio, Alexa Núñez, Ignacio Martín-Granizo, Montserrat Figuera-Alvarez, Esther Rodriguez, Cristina Esquinas, Joan Genesca, Marc Miravitlles

Factors associated with testing of COPD patients for serum AAT levels to detect cases of AATD. The EPOCONSUL study.
Gianna Vargas Centanaro (Madrid, Spain), Juan Luis Rodriguez Hermosa, Juan B Soriano, José Luis Lopez-Campos, Juan Jose Soler-Cataluna, José Rodriguez Gonzalez-Moro, Bernardino Alcázar Navarrete, Myriam Calle Rubio

Effects of double dose alpha 1 antitrypsin (AAT) therapy on cytokine pathways in AAT Deficiency (AATD)
Michael Campos (Miami, United States of America), Patrick Geraghty, Gregory Holt, Elio Donna, Eliana Mendes, Luis Escobar, Landy Luna, Robert Stockley

Family screening in alpha-1 antitrypsin deficiency
Ana Filipa Cruz e Costa (Taveiro, Portugal), Inés Albuquerque Monteiro

Characteristics of COPD patients and alpha-1 antitrypsin deficiency at outpatient respiratory clinics. The EPOCONSUL study.

Description and analysis of the Alpha 1 antitrypsin deficientary genotypes in the southwest area of Galicia (Spain)
Ramon Antonio Tubio Perez (Noia, Spain), Maria Torres Duran, Milagros Blanco Perez, Cristina Ramos Hernandez, Cecilia Mournote Roibas, David Dalal Rivas, Victoria Arnalich Montiel, Alberto Fernandez Villar

Clinical phenotyping of COPD patients: a simple tool with prognosis value
Ahmed Ben Saad (Monastir, Tunisia), Nesrine Fahem, Saousen Cheikh Mhamed, Asma Migaou, Samah Joobeur, Naceur Rouatbi
PA576 The discriminatory capacity of symptoms to distinguish undiagnosed COPD from non-COPD
Kate Johnson (Vancouver (BC), Canada), Wan Tan, Jean Bourbeau, Mohsen Sadatsafavi

PA577 Airway morphometry in COPD-bronchiectasis overlap.
Stephanie Everaerts (Leuven, Belgium), Stijn Verleden, John Medconough, Jef Serré, Carolien Mathysyn, Matthieu Boone, Iván Jospiovic, Lieven Dupont, Bart Vanaudenaerde, Wim Janssens

PA578 Association of NRAMP1 gene polymorphisms with COPD clinical signs
Sophia V. Nesterovich (Tomsk, Russian Federation), Ekaterina B. Bukreeva

PA580 Altered serum metabolomics in COPD: analysis of the SPIROMICS cohort
Wassim Labaki (Ann Arbor, United States of America), Tian Gu, Susan Murray, Jeffrey Curtis, Russell Fowler, R. Graham Barr, Eric Hoffman, Alejandro Comellas, Nadia Hansel, Christopher Cooper, Richard Kanner, Robert Paine II, Gerard Criner, Mark Dransfield, Merry-Lynn Mcdonough, Jerry Krishnan, Eugene Bleecker, Stephen Peters, Prescott Woodruff, Wanda O’Neal, Wenqi Diao, Bei He, Fernando Martinez, Theodore Standiford, Kathleen Stringer, Meilan Han

PA581 Analysis and comparison of the transcriptome of COPD patients with and without lung cancer
Renata Ferrari (Botucatu (SP), Brazil), Guillaume Noell, Laura Caram, Suzana Tanni, Ludimila Nogueira, Simone Vale, Erica Hasimoto, Raul Ruiz, Rosa Faner, Alvar Agusti, Irma Godoy

Poster discussion: Regenerative and anti-fibrotic approaches

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Respiratory critical care
Method(s): Imaging, Endoscopy and interventional pulmonology, Transplantation, Cell and molecular biology
Chairs: Darcy Wagner (Lund, Sweden), María Rosa Faner Canet (Barcelona, Spain)

PA582 Late breaking abstract - PRRX1 inhibition decreases fibrosis in the bleomycin-induced lung fibrosis model in mice
Emmeline Marchal-Duval (Paris, France), Antoine Froidure, Madeleine Jaillot, Mada Ghanem, Audrey Joannes, Arnaud Maurac, Ksenija Schirduan, Franck Jaschinski, Bruno Crestani, Arnaud Mailleux

PA583 LSC - 2018 - Generation of alveolar epithelial cells from human induced pluripotent stem cells for a model of alveolar r wound repair
Sander van Riet (Leiden, Netherlands), Dennis Nibber, (D.K.Nibber@lumc.nl / Leiden University Medical Center, Leiden), Robbert Rottier (r.rotter@erasmusmc.nl / Erasmus MC, Rotterdam), Freund (C.M.A.H.Freund@lumc.nl / Leiden University Medical Center, Leiden), Hiemstra (P.S.Hiemstra@lumc.nl / Leiden University Medical Center, Leiden)

PA584 Novel compounds for WNT/β-catenin induced lung repair in chronic obstructive pulmonary disease
Rita Costa (München, Germany), Darcy E. Wagner, Martina M. De Santis, Koene E. Bailey, Ali Doryab, Kenji Schorpp, Ina Rothenaigner, Chiara Otu, Hoeke A. Baarsma, Monica Campillos, Kamiar Hadian, Melanie Königshoff

PA585 Immunomodulatory properties of Lung Resident Mesenchymal Stem Cells in patients with COPD
Maria Rosa Faner Canet (Barcelona, Spain), Tamara Cruz, Alejandra López-Giraldo, Guillaume Noell, Alvar Agusti

PA586 Cigarette smoke exposure decreases CFLAR expression in bronchiol epithelium, augmenting susceptibility for cell death and DAMP release
Simon D. Poutelis (Groningen, Netherlands), Alen Faiz, Irene H. Heijink, Cornelis J. Vermeulen, Victor Guryev, Maarten Van Den Berge, Martijn C. Nakanj

PA587 Use of alveolar epithelial cells derived from induced pluripotent stem cell to study alveolar wound repair in vitro
Sander van Riet (Leiden, Netherlands), Dennis Nibber, Robbert Rottier, Christian Freund, Pieter Hiemstra

PA588 Equine decellularized lung: a potencial approche for regenerative medicine
Renata Palma (São Paulo (SP), Brazil), Andressa Cereta, Gustavo Matias, Paula Fratini, Leticia Guimarães, Luis Vicente Oliveira, Ramon Farre, Maria Angélica Miglino

PA589 Regeneration of functional lung by adult human SOX9+ airway basal cell transplantation
Wei Zuo (Shanghai, China), Ting Zhang, Tao Ren

PA590 Increased proliferation of type 2 alveolar epithelial cells in a pneumonectomy model mice with a deletion of p16INK4a gene.
Bruno Ribeiro Baptista (Nancy, France), Maeva Zysman, Rachid Souktani, Clement Giffard, Muriel Lize, Sandrine Pons, Sophie Lanone, Jorge Boczkowski, Laurent Boyer

PA591 Effect of inhaled antioxidants on surfactant phospholipids under prolonged experimental hyperoxia
Iryna Katovich (Minsk, Belarus), Zhanna Rutkouskaya, Anatoly Tahanovich
PA592  Pulmonary surfactant as drug delivery system to target lung epithelium: new approach for the treatment of epithelial injury after bleomycin challenge
Elena Lopez Rodriguez (Hannover, Germany), Carolin Laukamp, Lilian Steffen, Matthias Ochs, Lars Knudsen

PA593  Electroporation of Hepatocyte growth factor to the lung induces migration of bone marrow mesenchymal stem cells and reduces lung fibrosis
Amiq Gazdhar (Bern, Switzerland), Kleanthis Fitianos, Lars Knudsen, Ronja Schliep, Stefan Müller, Thomas Geiser

PA594  The secretome of lung resident mesenchymal stem cells is anti-fibrotic in vitro and in vivo
Katrin Esther Hostettler (Basel, Switzerland), Petra Khan, Amiq Gazdhar, Kleanthis Fitianos, Lei Fang, Fabienne Caldana, Michael Roth, Michael Tamann, Thomas Geiser

PA595  GED-0507 as a novel anti-fibrotic treatment option for pulmonary fibrosis
Silvia Speca (Lille, France), Caroline Dubuquoy, Christel Rousseaux, Elodie Jadot, Pierre Desreumaux, Paolo Spagnolo

PA596  Phase 2B dose selection of BG00011 for the treatment of idiopathic pulmonary fibrosis (IPF)
Million Arefayene (Cambridge, United States of America), Majd Mouded, Chris Stebbins, Guochen Zhao, Guochen Song, Romy Christmann, Shelia Violette, Diana Gallagher

PA597  Scar-in-a-Jar, an in vitro screening tool for antifibrotics
Natasja Gudmann (Herlev, Denmark), Jannie Sand, Sarah Ronnow, Sarah Brockbank, Simon Cruwys, Morten Karsdal, Diana Leeming

PA598  Tissue engineering for regeneration in vivo of decellularized trachea scaffolds using a porcine model
Elisa Barrera Ramírez (Ciudad Juárez (Chihuahua), Mexico), Rubén E Garrido Cardona, Edna Rico Escobar, Alejandro Martínez Martínez, Luis F Plenge Tellechea, Alfredo Hernandez, Enrique Vanegas Venegas

Session 86  10:45 - 12:45
Poster discussion: Innovative therapies in asthma and COPD

Disease(s) : Airway diseases
Method(s) : Imaging  Cell and molecular biology  General respiratory patient care  Epidemiology
Chairs : Dave Singh (Manchester, United Kingdom), Anirban Sinha (Amsterdam, Netherlands)

PA600  Intravenous (IV) reslizumab improves asthma control, symptoms, and quality of life in patients with historically elevated blood eosinophils
Pascal Chanez (Marseille, France), Yochai Adir, Mario Castro, Laurie Pahus, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Anne Sofie Bjerrum (Århus, Denmark), Johannes Skjold

PA602  Oral corticosteroid (OCS)-sparing effect of tralokinumab in severe, uncontrolled asthma: the TROPOS study
William Busse (Madison, United States of America), Guy Brusselle, Stephanie Korn, Piotr Kuna, Antoine Magnan, David Cohen, Karin Bowen, Teresa Piechoiwak, Millie Wang, Gene Colice

PA603  Benralizumab efficacy in patients with uncontrolled eosinophilic asthma by age at diagnosis
Sally Wenzel (Pittsburgh, United States of America), Guy Brusselle, Ian Hirsch, James G. Zangrilli, Sarang Rastogi

PA604  Serum GAL3 predict response in omalizumab-treated patients with severe allergic asthma: the PROXIMA study
Giorgio Walter Canonica (Milano (MI), Italy), Anna Maria Riccio, Pierluigi Mauri, Marta Bartezaghi, Fabiana Saccheri

PA605  Bronchial thermoplasty in severe asthmatics: a retrospective study on 10 cases with one year follow-up
An Frix (Liege, Belgium), Vincent Heinen, Florence Schleich, Bernard Duysinx, Virginie Paulus, Renaud Louis

PA606  Further resolution of non-T2 asthma subtypes from high-throughput psumt trascriptomics data in U-BIOPRED
nazanin Zounemat Kermani (hanworth, United Kingdom), Stelios Pavlidis, Mansoor Saqi, Yike Guo, Paul Agapow, Chih-Hsi Kuo, Matthew Loza, Frederic Baribaud, Anthony Rowe, Ana Sousa, Bertrand De Meulder, Diane Lefaudeux, Louise Fleming, Julie Corfield, Richard Knowles, Charles Auffray, Ratko Djukanovic, Peter J. Sterk, Ian Adcock, Fan Chung

PA607  Extraline glycopyrronium bromide (GB) in addition to extraline beclomethasone dipropionate/formoterol fumarate (BDP/FF) in uncontrolled asthmatic patients
Dave Singh (Manchester, United Kingdom), George Georges, Mario Scuri, Ilaria Valente, Alessandro Guasconi, Francoise Zuccaro, Alberto Papi

PA608  Safety profile of tiotropium add-on therapy in paediatric patients by gender
Christian Vogelberg (Dresden, Germany), Eckard Hamelmann, Michael Engel, Georges El Azzi, Sebastian Dan Vulcu, Stanley Szefler
PA609 Methodology of clinical trials in COPD exacerbations: Eligibility criteria and endpoint selection.
Alexander Mathioudakis (Manchester, United Kingdom), Mia Moberg, Julie Janner, Pablo Alonso-Coello, Jørgen Vestbo

PA610 Patients’ ability to use a novel fluticasone propionate/formoterol breath-triggered inhaler (BTI) vs. budesonide/formoterol dry powder inhaler (DPI)
David Bell (Belfast, United Kingdom), Wolfgang Timmer, Lucielle Mansfield, Mark Lomax, Birgit Grothe, Tim Overend

PA611 Dual bronchodilation vs triple therapy in the real-life DACCORD study
Carli-Peter Criece (Bovenden, Germany), Peter Kardos, Heinrich Worth, Nadine Lossi, Konstantinos Kostikas, Claus Vogelmeier, Roland Buhl

PA612 Lung deflation with indacaterol/glycopyrronium improves pulmonary microvascular blood flow in the CLAIM Study
Jens Vogel-Claussen (Hannover, Germany), Christian-Olaf Schoenfeld, Christoph Czerner, Julius Renne, Till Kaireit, Hanns-Christian Tillmann, Korbinian Berschneider, Simone Hilll, Johann Bauersach, Tobias Welte, Jens Hohlfed

PA613 Disease control and treatment pathways of asthma patients after initiating ICS/LABA
Roland Buhl (Mainz, Germany), Liam G Heaney, Emil Loefroth, Paul Michael Labig, Konstantinos Kostikas, Valentino Conti, Hui Cao

PA614 Exacerbations and Eosinophil Levels in ACCESS Cohort Participants Prescribed Inhaled Triple Therapy
Hana Müllerová (Uxbridge (Middlesex), United Kingdom), Celine El-Baou, Dmitry Galkin, Paul Jones

PA615 Efficacy and safety profile of xanthines in COPD: a network meta-analysis
Mario Cazzola (Roma (RM), Italy), Luigino Calzetta, Peter J Barnes, Gerard J Criner, Fernando J. Martinez, Alberto Papi, Maria Gabriella Matera

PA616 Impact of doxofylline in COPD: a pair-wise meta-analysis
Mario Cazzola (Roma (RM), Italy), Luigino Calzetta, Paola Rogliani, Clive Page, Maria Gabriella Matera

PA617 A randomized, placebo controlled 4-week study in COPD of QBW251, a potentiator of the cystic fibrosis transmembrane conductance regulator (CFTR) protein
Steven M. Rowe (Birmingham, United States of America), Nazmul Haque, Stephen Gleason, Ieuan Jones, Kenneth Kulmatycki, David Rowlands, Sarah S. Grant

7.3J Session 87 10:45 - 12:45

Poster discussion: Orphan diseases in children

Disease(s) : Interstitial lung diseases, Respiratory infections, Airway diseases, Pulmonary vascular diseases, Respiratory infections
Method(s) : Physiology, General respiratory patient care, Surgery, Imaging, Epidemiology, Cell and molecular biology, Endoscopy and interventional pulmonology, Transplantation

Chairs: Deborah Snijders (Ponzano Veneto (TV), Italy), Elisabetta Balestro (Padova (PD), Italy)

PA618 Ciliary beating patterns in PCD patients of Greek origin: a four-year experience
Grigoris Chatziparasidis (Trikala, Greece), Konstantinos Douros, Barbara Mpoutopoulou, Marios Papadopoulos, Vasylis Grammeniatis, Katerina Dimakou, Kostas Priftis

PA619 Outcomes in idiopathic pulmonary haemosiderosis in children are highly heterogeneous
Frederik Buchwald (Vejby, Denmark), Astrid Madsen Ring, Kim Gjerum Nielsen

PA620 Pulmonary Complications After Hematopoietic Stem Cell Transplantation In Pediatric Hematology Patients
Neslihan Dogulu (Ankara, Turkey), Elif Ince, Talia Ileri, Mehmet Ertem, Nazan Cobanoglu

PA621 Newborn screening for CF: first three years experience in Hacettepe University
Mina Gharibzadeh Hizal (Ankara, Turkey), Ebru Yalcin, Sanem Eryilmaz, Nagehan Emiralioğlu, Deniz Dogru Ersöz, Ugur Ozcelik, Nural Kiper

PA622 Pigeon breeder’s disease as hypersensitivity pneumonia
Ayse Tana Aslan (Ankara, Turkey), Tuğba Ramasli Gürsoy, Tuğba Şuşanlar Eyüboğlu, Özmir Boyunağa

PA623 Cladribine as a second line treatment in a child with isolated pulmonary Langerhans cell histiocytosis – case report
Honorata Marczak (Warszawa, Poland), Joanna Lange, Katarzyna Krenke, Stanislaw Boguslawski, Katarzyna Smalisz, Iwona Malinowska

PA624 FIRST LINE TREATMENT FOR FOREIGN BODY ASPIRATION IN CHILDREN: FLEXIBLE BRONCHOSCOPY
Adem Yasar (Manisa, Turkey), Hasan Yuksel, Ozge Yilmaz, Arzu Acikel, Yurda Basbay, Ismet Topcu
The prevalence of non-cystic fibrosis bronchiectasis in a pediatric respiratory unit
Aleksandra Zver (Ljubljana, Slovenia), Malena Aldeco, Uroš Krivec, Dušanka Lepej, Marina Praprotnik, Ana Kotnik Pirs

Sleep characteristic in children with interstitial lung disease, a case series
Stanislaw Boguslawski (, Poland), Katarzyna Krenke, Joanna Lange, Honorata Marczak

Flexible bronchoscopy in children and adolescents with cystic fibrosis
Uroš Krivec (Ljubljana, Slovenia), Marina Praprotnik, Malena Aldeco, Dušanka Lepej, Ana Kotnik Pirs, Aleksandra Zver

Multiple Breath Washout in clinical routine: Quality control of N2MBW measurements in paediatric lung transplant recipients
Julia Carlens (Hannover, Germany), Nicolaus Schwerk, Carsten Müller, Gesine Hansen, Philipp Latzin, Kathryn Ramsey

Xpert MTB/RIF on bronchoalveolar lavage (BAL) samples reduces the need for transbronchial needle aspiration biopsy (TBNA) in children with suspected intrathoracic tuberculosis (TB).
Pierre Goussard (Bellville, South Africa), Robert Gie, Anneke Hesseling, Julie Morrison, Rolanda Croucamp, Anne-Marie Demmers

Follow-up of Congenital Lung Malformations (CLM) in a Pediatric tertiary center
Ana Curado (Lisboa, Portugal), Carolina Gonçalves, Ana Saianda, André Graça, Luisa Lobo, Miroslava Gonçalves, Teresa Bandeira

The relationship between bronchoscopy, radiology and microbiology in non cystic fibrosis patients
Ayse Ayzit Atabek (Istanbul, Turkey), Erkan Çakir, Fatouma Khalilí Abdillahi, Lina Mohammed An Shadfan, Hayrettin Daskaya, Sabriye Sennur Bilgin, Bilge Gultepe

Methylprednisolone pulse treatment influences splicing of SFTPC mRNA and promotes processing of pro-SP-C protein in twins with SFTPC mutation
Celine Delestrain (Creteil, France), Marion Onnee, Abdel Aissat, Valerie Delattre, Elodie Nattes, Bruno Costes, Alix De Beedelievre, Stephanie Simon, Pascale Fanen, Ralph Epaud

A novel non-BRICOS surfactant protein C mutation causing infantile interstitial lung disease is associated with reduced mature SP-C level
Celine Delestrain (Creteil, France), Sylvain Blanchon, Julie Abbal, Elodie Nattes, Abdel Aissat, Valérie Delattre, Stéphanie Simon, Agathe Tarze, François Bremont, Pascale Fanen

Medication for childhood interstitial lung diseases differs internationally
Sabine Witt (Neuerberg, Germany), Boglarka Szentes, Andrew Bush, Steve Cunningham, Nural Kiper, Joanna Lange, Reiner Leidl, Suzanne Terheggen-Lagro, Nicolaus Schwerk, Deborah Snijders, Matthias Griese, Larissa Schwarzkopf

Causative bacteria in protracted bacterial bronchitis are biofilm forming species
Konstantinos Douros (Athens, Greece), Stylianos Chatzipanagiotou, Angeliki Galani, Gregory Chatziparasidis, Vana Papaevangelou, Kostas Priftis

The Severe Asthma Registry – German data
Stephanie Korn (Mainz, Germany), Maike Wilk, Christian Schulz, Rainer Ehmann, Marco Idzko, Eckard Hamelmann, Roland Buhl

No Room
Session 91  12:30 - 17:00
Game Zone: GAME ZONE - SESSION 2

Ultrasound
Julia N.S. d'Hooghe (Amsterdam, Netherlands), Angela Lopez Bauza (, Spain)

Interventional bronchoscopy
Lizzy Wijmans (Amsterdam, Netherlands), Fausto Leoncini (Montespertoli (FI), Italy), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Rein Posthuma (Maastricht, Netherlands)

Session 93  12:50 - 14:40

Thematic poster: Physiological and biological insights in asthma

Disease(s) : Airway diseases, Respiratory infections
Method(s) : Physiology, Endoscopy and interventional pulmonology, Surgery, Cell and molecular biology, Epidemiology, General respiratory patient care

Chairs: Parakkal Sukumaran (Kottayam (Kerala), India), Szymon Skoczy ski (Katowice, Poland), Asger Sverrild (København NV, Denmark), Jodie Simpson (New Lambton, Australia)

TP-01 The Severe Asthma Registry – German data
Stephanie Korn (Mainz, Germany), Maike Wilk, Christian Schulz, Rainer Ehmann, Marco Idzko, Eckard Hamelmann, Roland Buhl
Role of CD163 in human fatal asthma and murine asthma model.
Yosihisa Tokunaga (Kurume, Japan), Haruki Imaoka, Yoshitaka Morimatsu, Yoichiro Kaku, Yuki Sakazaki, Masanobu Matsuoka, Yoshiihiro Komohara, Tomotaka Kawayama, Motohiro Takeya, Tomoaki Hoshino

Two therapy option in patients with uncontrolled asthma
Elena Jovanovska Janeva (Skopje, FYROM (Macedonia)), Dejan Dokic, Biserka Kaeva, Gorica Breskovska, Zlatica Goseva, Zoran Arsovski, Magdalena Dimitrova, Dejan Trajkov, Olgica Sibinovska

Long-term effects of a high intensity life style program in obese patients with asthma
Yasemin Türk (Rotterdam, Netherlands), Willy Theel, Astrid Van Huistede, Erwin Birnie, Pieter Hiemstra, Christian Taube, Gert-Jan Braunstahl

Adrenal insufficiency in patients with severe bronchial asthma. Evaluation employing standard response curve of rapid ACTH test in non-asthmatic healthy controls.
Michiko Haida (Tokyo, Japan), Michiko Haida, Katsutoshi Ogawa, Takahiro Inoue, Akihiko Hashiguchi

Predictors of functional exercise capacity in asthmatic children and adolescents
Aylin Tanrıverdi (Izmir, Turkey), Ismail Ozsoy, Buse Ozcan Kahraman, Serap Acar, Asli Papurcu, Nazenin Hande Sezgin, Karya Polat, Gizem Atakul, Nevin Uzuner, Sema Asilsoy, Sema Saim

Impact of acute active and passive stress on physiological responses in adults with asthma
Simon Bacon (Montreal (QC), Canada), Annik Plourde, Nicola Paine, Andre Cartier, Kim Lavoie

Psychological comorbidities in difficult asthma within the WATCH cohort
Matt Harvey (Gosport (Hampshire), United Kingdom), Adnan Azim, Yvette Thirwall, Kerry Gove, Colin Newell, Deborah Knight, Karen Long, Hans Michael Haitchi, Ramesh Kurukulaaratchy

CCQ and ACQ scores in obstructive lung disease: one questionnaire for all?
Tjeerd van der Veer (Rotterdam, Netherlands), J.C.C.M. In'T Veen

Supraglottoplasty in patients with Exercise induced laryngeal obstruction (EILO)
Astrid Sandnes (Gjøvik, Norway), Magnus Hilland, Tiina Anderssen, Maria Vollset, Ingvild Ø Engesæter, John-Helge Heimdahl, Thomas Halvorsen, Øla D Røksund, Hege H Clemm

Evaluation of the degree of agreement between the post bronchodilator test and bronchial hyper-responsiveness: pilot study.
Michelle Andrea Espinoza Solano (Sevilla, Spain), Cándido Fernández García, Laura Carrasco Hernández, Maria Abad Arranz, Eduardo Márquez Martín, Carmen Calero, Francisco Ortega Ruiz, José Luis López Campos

GLN27GLU POLYMORPHISM IN THE ß2-ADRENERGIC RECEPTOR GENE AND THE RISK OF ARTERIAL HYPERTENSION IN PATIENTS WITH BRONCHIAL ASTHMA
Vladyslava Knyta (Sunny, Ukraine), Anna Bondarkova, Lyudmyla Prystupa

A case series of patients with ABPA presenting with lobar collapse at a university teaching hospital
Radhika Banka (Mumbai (Maharashtra), India), Ajay Kamath

Relations between serum lipid levels and inflammatory markers in obese asthma.
Cathelijne van der Veer (Rotterdam, Netherlands), Geertje De Boer, Gerdien Tramper, Gert-Jan Braunstahl

Local cytokine profile specifics among patients with BA phenotype, associated to allergic rhinitis: allergic rhinitis and bronchial asthma.
Natalia Tataurshchikova (Moscow, Russian Federation)

A heat and moisture exchange mask to reduce exercise induced bronchoconstrictive severity
Anna Jackson (London, United Kingdom), James Hull, James Hopker, William Gowers, John Dickinson

C - Reactive Protein level in obese asthmatic patients
ines laouini (nabeul, Tunisia), Haïfa Zaiti, Jihen Ben Ammar, Sarra Mazaoui, Dorra Karray, Med Ali Baccar, Salwa Azzebi, Besma Dahnri, Hichem Aouna

TP-02 Session 94 12:50 - 14:40

Thematic poster: Asthma: clinical screening tools
Disease(s): Respiratory critical care Airway diseases Sleep and breathing disorders
Method(s): Imaging Endoscopy and interventional pulmonology Cell and molecular biology Epidemiology Physiology Respiratory intensive care General respiratory patient care
<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>PA667</td>
<td>Breathing Pattern Assessment Tool as a new screening tool to identify dysfunctional breathing</td>
<td>Farnam Barati Sedeh (Birkerød, Denmark), Anna Von Bülow, Vibeke Bæcker, Uffe Bødtker, Ulrik Søes Petersen, Susanne Vest, James Hull, Celeste Persbjerg</td>
</tr>
<tr>
<td>PA668</td>
<td>Which patient reported symptoms on the VCDQ may be predictive of positive diagnosis of Inducible Laryngeal Obstruction?</td>
<td>Claire Slinger (Clitheroe (Lancashire), United Kingdom), Jessica Blakemore, Richard Slinger, Aashish Vyas</td>
</tr>
<tr>
<td>PA669</td>
<td>Asthma admissions to ICU, what are we really treating?</td>
<td>Sarah Forster (Nottingham (Nottinghamshire), United Kingdom), Mohamed Mansour, James Bonnington, Dominick Shaw</td>
</tr>
<tr>
<td>PA670</td>
<td>A nurse phone educational program enhances health status of asthmatic patients after an emergency department admission for acute exacerbation</td>
<td>Gilles Mangiapian (Creteil, France), Thibaut Desmettre, Anne Prud'Homme, Jean Charles Dalphin, Bruno Stach, Sergio Salmeron, Patrick Plaisance</td>
</tr>
<tr>
<td>PA671</td>
<td>Detecting the presence of fungal signals in the asthmatic airway</td>
<td>Ashley Sullivan (Cork, Ireland), Eoin B Hunt, Chris Ward, Joseph Eustace, Paul M Byrne, Barry J Plant, John Macsharry, Desmond M Murphy</td>
</tr>
<tr>
<td>PA672</td>
<td>Automated chart review for assessing adherence to asthma guidelines for asthma triggers</td>
<td>Young J Juhn (Rochester, United States of America), Chung-II Wi, Sungrim Moon, Julie Porcher, Hee Yun Seol, Bong Seok Choi, Euijung Ryu, Barbarin Yawn, Miguel Park, Sung-Hwan Sohn</td>
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<td>PA673</td>
<td>Relationship between pollen concentrations and short-acting B2-agonists (SABA) bronchodilator sales in central France: a daily time-series analysis over a 5-year period.</td>
<td>Denis Caillaud (Clermont-Ferrand, France), Sylvie Martin, Claire Segala, Michel Thibaudon</td>
</tr>
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<td>PA674</td>
<td>Lower Urinary Tract Symptoms (LUTS) in Male Asthma Patients</td>
<td>Jae Ho Chung (Incheon, Republic of Korea), Chang Hoon Han</td>
</tr>
<tr>
<td>PA675</td>
<td>MARTE: an observational study on clinical and sociodemographic characteristics of asthmatic patients receiving maintenance and rescue treatment in Spain</td>
<td>Alfons Torrego Fernandez (Barcelona, Spain), Jesús Molina Paris, Juan Antonio Trigueros Carrero, Diego González-Segura</td>
</tr>
<tr>
<td>PA676</td>
<td>Analysis of the findings on paranasal sinuses and chest computed tomography in patients with severe asthma</td>
<td>Ester Zamarron De Lucas (Madrid, Spain), Juan Fernández-Lahera Martínez, David Romero Ribate, Carlos Villasante Fernández-Montes, Pilar Barranco Sanz, Santiago Quirce Gancedo, Rodolfo Alvarez-Sala Walther</td>
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<tr>
<td>PA677</td>
<td>Effects of prebiotics and synbiotics on asthma outcomes: a systematic review and meta-analysis</td>
<td>Neil Williams (Nottingham (Nottinghamshire), United Kingdom), Elijas Gricius, Paul Lester, Michael Johnson, Graham Sharpe</td>
</tr>
<tr>
<td>PA678</td>
<td>Modern approaches to assessment of disability in asthma in adults using the DALY indicator</td>
<td>Ana Moscoviciuc (Chisinau, Republic of Moldova), Konstantin Yavorsky, Irina Sincarenco, Valentina Bolotnikova, Mikhail Lukyan</td>
</tr>
<tr>
<td>PA679</td>
<td>Efficient and practical management for checking inhalation technique and discussing medication adherence before treatment step-up in uncontrolled asthma</td>
<td>Masaya Takemura (Nagoya, Japan), Masayuki Nishio, Kensuke Fukumitsu, Norihisa Takeda, Takamitsu Asano, Yoshihiro Kanemitsu, Kosho Yoshikawa, Akio Niiimi</td>
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<tr>
<td>PA680</td>
<td>Inhalation parameters from an integrated electronic multidose dry powder inhaler (eMDPI)</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom), Dinesh Saralaya, Anil Shenoy, Sophie Toor, Andrew Scally, Enric Calderon, Guilherme Saffioti</td>
</tr>
<tr>
<td>PA681</td>
<td>Histamine challenge test assessed by the ratio of diaphragm EMG recorded from surface electrodes to tidal volume</td>
<td>Yingmei Luo (Guangzhou (Guangdong), China), Bai-Ting He, Ying-Xin Wu, Joerg Steier, Caroline Jolley, John Moxham, Michael I Polkey, Yuanming Luo</td>
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<td>PA682</td>
<td>Does adding the Generalised Anxiety Disorder (GAD) questionnaire and Patient Health Questionnaire-9 (PHQ-9) to routine outpatient activity provide more information on the presence of anxiety and depression in asthma?</td>
<td>Kimberley Barber (Liverpool (Merseyside), United Kingdom), Ryan Robinson, John Blakey</td>
</tr>
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<td>PA683</td>
<td>Cluster analysis identifies distinct clinical phenotypes with poor treatment responsiveness in asthma.</td>
<td>Smriti Bhargava (Mysore (Karnataka), India), Mahesh P.A., Amrutha D Holla, Jayaraj B.S., Praveena A.S., Ravi S, Sandhya Khurana</td>
</tr>
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Video education of inhaler technique for asthma control in patients with well or partly controlled asthma, compared to face-to-face education

Min Kwang Byun (Seoul, Republic of Korea), Hye Jung Park, Jae-Woo Kwon, Woo Kyung Kim, Dong-Ho Nahm, Myung-Goo Lee, Sang-Pyo Lee, Sook Young Lee, Ji-Hyun Lee, Yi Yeong Jeong, You Sook Cho, Jeong-Hee Choi, Byoung Whui Choi

Comparability of Asthma Control Test (ACT) scores between self and physician administered test.
Sabrina Genco (Catania (CT), Italy), Enrico Heffler, Claudia Crimi, Raffaele Campisi, Giovanni Paoletti, Ramona Sorrentino, Simona Strano, Nunzio Crimi

Thematic poster: Integrated care and non-pharmacological management of COPD

Disease(s): Airway diseases, Respiratory critical care, Respiratory infections, Thoracic oncology, Interstitial lung diseases

Method(s): Physiology, Endoscopy and interventional pulmonology, General respiratory patient care

Chairs: Ahmed Ben Saad (Monastir, Tunisia), Carme Hernandez Carcereny (Barcelona, Spain), Wassim Labaki (Ann Arbor, United States of America), Chair to be confirmed

Late Breaking Abstract - Qter® and Creatine improve functional performance in COPD patients on long-term oxygen therapy
Bartolome R. Celli Croquer (Boston, United States of America), Francesca de Blasio, Francesca Polverino, Roberta Pastorelli, Manuela Ferrario, Emiel F. M. Wouters, Stefano Marinari, Fernando De Benedetto

Late Breaking Abstract - Impact of eosinophil levels on lung function and exacerbation benefits with co-suspension delivery technology budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) in COPD (KRÖNOS study subgroup analysis)
Leonardo Michele Fabbri (Modena, Italy), Klaus F. Rabe, Fernando J. Martinez, Gary T. Ferguson, Chen Wang, Masakazu Ichinose, Eric Bourne, Shaila Ballal, Patrick Darken, Kiernan Deangelis, Magnus Aurivillius, Paul Dorinsky, Colin Reisner

Pre-discharge assessment and outcomes of patients commenced on short-term oxygen therapy
George Antunes (Saltburn by the sea, United Kingdom), Dalia Mudawi, Naomi Miller-Biot

Advance Care Planning in Patients with Chronic Obstructive Pulmonary Disease assessed for Long Term Oxygen Therapy
Freya Hildebrand (Coburg (VIC), Australia), Caroline Kein, Eve Denton, Souvanny Khov, Belinda Miller

Impact of long-term oxygen therapy on systemic inflammation, morphological changes of red blood cells, pulmonary hemodynamics and diaphragm function in patients with chronic obstructive pulmonary disease.
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Daria Sklyarova, Vladimir Volchkov

Oxygen alert cards versus Oxygen Alert Wrist Bands (OxyBand) in COPD
Emma Rickards (St Helens (Merseyside), United Kingdom), Dennis Wat, Adrian Mcgonigle, Diane Green, Onnor Hampson, Paul Stockton, Sarah Sibley

Follow up after end of trial: Evaluation of usage of oxygen-enriched nasal high flow treatment in COPD with chronic hypoxic respiratory failure
Line Storgaard (Aabybro, Denmark), Ulla Møller Weinreich

COPD Management needs Hospital and Community multi-disciplinary teams to work together to optimise patient care.
Michael Apps (Brentwood, United Kingdom), Dipak Mukherjee, Syed Abbas, Jan Minter, Kiran Sanger, James Whitfield, Sue Field, Sharon Pearce, Petra Rosier, Lauren Ateli, Honoria Olympio-Anang, Carole Goodrich, Kelly-Ann Keeling, Helen Hill, Donna Carter, Tracy Gisby, Bernadette Hawkes, Sue Webb, Sue Barfield, Charlotte Wigmore, Jo Downham, Mark Haigh, Paul Bannister, Irene Young, Anna Kopacz, Jo Peacock

Mortality causes in patients with advanced lung disease in long term oxygen therapy
Thulio Marquez Cunha (Uberlandia (MG), Brazil), Vinicius Oliveira, Tatiane Martins Lima Crosara Bastos, Isabela Bodaczny Taliberti, Thales Souza Campos Rodrigues, Robson Sabino Silva, Luiz Ricardo Goulart Filho, Michelle Godoy Canazza Damian, Maria Aparecida Gonçalves Gomes

Improvements in activation for self-management in patients with chronic airway disease via the COPDnet diagnostic trajectory in secondary care; a pilot study.
Jeanine C. Antons (Molenhoek, Netherlands), Noortje Koolen, Heleen Niet Van Der, Bas Robberts, Netty Plat, Bram Borst Van Den, Hanneke Helvoort Van, Jeroen Hees Van, Alex Hul Van ’T

Effect of endoscopic lung volume reductions in patients with emphysema – a single center experience
Florent Baty (St. Gallen, Switzerland), Tino Schneider, Kei Kozu, Lukas Kern, Martin Brutsche
PA699  Telehealth care vs. standard care in COPD – an international randomised controlled trial (interim analysis)
Frank Rassouli (St. Gallen, Switzerland), Florent Baty, Daiana Stolz, Malcolm Kohler, Robert Thurnheer, Thomas Brack, Christian Kähler, Michael Tamm, Sandra Widmer, Ursina Tschirren, Martin H Brutsche

PA700  Effects of an early rehabilitation program in COPD exacerbation, after an hospital discharge, one-year follow-up
Filipe Gonçalves Dos Santos Carvalho (Barcelona, Spain), Carlos Martinez Rivera, Maria Boldó, Ignasi Garcia Olivé, Alicia Marín Tapia, Aida Muñoz Ferrer, Zoran Stojanovic, Alicia Francoso Vicente, Sonia Baeza Mená, Ana Belén Moreno García, Leire Mendiluce Ochandorena, María Jose Dura Mata, Juan Ruiz Manzano

PA701  The cost-effectiveness of physical activity in the management of COPD patients in the UK
Mafalda Ramos, Mark Lamotte, Laetitia Gerlier, Per Svangren, Anna Miquel Cases, John Haughney

PA702  A retrospective review of MDT mortality prediction for patients with COPD using The Gold Standard Framework.
Paul Marsden (Manchester (Greater Manchester), United Kingdom), Nazra Hussain, Anne Boardman, Sharada Gudur, Zoe Walker Frost

PA703  BACTERIAL IMMUNOTHERAPY IN COPD AND/OR BRONCHIECTASIS FREQUENT EXACERBATOR PATIENTS. A RETROSPECTIVE STUDY.
Jose Belda (valencia, Spain), Ivan Arroyo-Fernandez, Ruben Lera-Alvarez, Frederic Tatay-Soler

PA704  A simple multifunctional tool for integrated care of COPD
Kay Roy (St Albans (Hertfordshire), United Kingdom), Audrey Marau, Lawrence Gora, Jenny Shrestha, Glenda Esmond

PA705  Evaluation of ‘care bundles’ as a means of improving hospital care for patients with acute COPD: a case-study approach
Katherine Morton (Oxford (Oxfordshire), United Kingdom), Alison Shaw, James Calvert, Melanie Chalder, Emily Sanderson, Padraig Dixon, Stephanie Macneil, Will Hollingworth, Sue Jenkins, Chris Metcalf, Anna King, Sarah Purdy

PA706  Innovating the treatment of COPD exacerbations: a phone tele-system to increase Action Plan adherence
Raquel Farias (Montréal (QC), Canada), Maria Fernanda Sedeno, Pei Zhi Li, Alexandre Joubert, Isabelle Drouin, Rita Abimaroun, Isabelle Ouellet, Danielle Beaucage, Mira Abou Rjeili, Meena Patel, Jean Bourbeau

TP-04  Session 96  12:50 - 14:40
Thematic poster: Nutrition and metabolic syndrome in COPD

Disease(s) :  Airway diseases, Sleep and breathing disorders
Method(s) : Respiratory intensive care, Epidemiology, General respiratory patient care
Chairs :  Annemie Schols (Maastricht, Netherlands), Alexandru Corlateanu (Chisinau, Republic of Moldova), Breda Cushen (Dublin 11, Ireland), Bruno Balbi (Veruno (NO), Italy)

PA707  Usefulness of nutrition screening tools for sarcopenia screening with chronic obstructive pulmonary disease in JAPAN
Hiroyuki Nakamura (kagawa, Japan), Nobuyuki Kita, Kiyotaka Tamimoto, Chikai Kunikata, Teruhisa Taoka

PA708  Association between endothelial dysfunction and nutrient consumption in patients with chronic obstructive pulmonary disease and heart failure.

PA709  A comparison of muscle dysfunction in patients with chronic obstructive pulmonary disease and healthy subjects
Rachida Djebaili (Batna, Algeria), Radia Heddane, Rania Direche, Mounira Oulmi, Abelmadjid Djebbar

PA710  Nutrition status and comorbidities in patients with severe COPD.
Eva Voláková (Olomouc, Czech Republic), Jaromír Zatloukal, Vladimir Koblízek, Michal Svoboda, Patrice Popelkova, Marek Plutinsky, Kristyan Brat, Barbora Novotna, Petr Safranek, Tomas Dvorak, Dmitry Rakita, Milada Sipkova, Rastislav Simek, Eva Kocova, Michal Kopecky, Lucie Heribanova, Pavlina Musilova, Blanka Snelerova, Zuzana Liptakova, Katerina Neumannova, Zuzana Zbozinkova

PA711  Does Nutritional Risk Screening 2002 correlate with dyspnea status of patients with GOLD stage 3-4 chronic obstructive pulmonary disease: a Cohort study.
Fatma Bodur Yıldırım (Ankara, Turkey), Nalan Ögan, Banu Süzen, Ayse Baha, Evrim Eylem Akpınar

PA712  Nutritional status changing in COPD – Follow-up Platino Study
Oliver Augusto Nascimento (São Paulo (SP), Brazil), Mariana Gazzotti, Ana Paula Luize, Graciane Moreira, Beatriz Manzano, Ana Maria Menezes, Rogelio Perez-Padilla, Adriana Muiño, Maria Victoria Lopez-Varela, Maria Montes De Oca, José R. Jardim
Body composition in chronic obstructive pulmonary disease and heart failure
Luis Hernández-Urquieta (Mexico City, Mexico), Clyo Chávez-MéNdez, Arturo Orea-Tejeda, Dulce González-Islas, Rocio Sanchez SAntillan, Rafael Hernández-Zenteno, Giselle DáVila-Said, Carmen Olivo-Villalobos, Viridiana PeláEZ-Hernández, Karla Balderas-MuñOz, Monica Rivera-Rodríguez, Luis Castillo-Aguilar

Correlation between peritoneal fat and mid-thigh fat in chronic respiratory patients
Laura Ciobanu (Iasi, Romania), Vasile Maciuč

Role of the fat and muscle tissues in formation of the quality of life in COPD patients.
Vitalii Poberezhets (Vinnytsia, Ukraine), Yuriy Mostovoy, Hanna Demchuk

Sleep duration is an independent determinant of metabolic impairment in COPD patients
Nikhil Sahdev (LUTON (Bedfordshire), United Kingdom), Daniel Burrage, Claire Wells, Emma Baker

Associations between variations of adipokines, cytokines and body composition in patients with chronic obstructive pulmonary disease in one year
Suzana Érico Tanni (Botucatu (SP), Brazil), Carolina Mesquita, Robson Prudente, Caroline Knaut, Estefânia Franco, Irma Godoy

Does vitamin D deficiency worsen the hospital outcome in patients with acute exacerbation COPD?
Mohamed Abdelghany (Assiut, Egypt), Hoda Makhlouf, Aliae Abdrabou, Amal Abdelazeez

Correlation between being underweight and the severity of COPD
lobna Loued (MONASTIR, Tunisia), Sonia Toujani, Abir Hedhli, Sana Cheikhrouhou, Meriem Mjid, Yassine Ouahchi, Samira Meraïi

Sedentary behaviour is associated with worse cardiometabolic profiles in COPD patients, irrespective of moderate intensity physical activity.
Daniel Burrage (London, United Kingdom), Claire E. Wells, Emma H. Baker

Sarcopenia index correlates with COPD clinical outcomes.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Beatriz Abascal Bolado, Juan Agüero Calvo, BeGoñA DuranteS, Milagros Ruiz De Infante, Armando Raïl Guerra, MariÁ Teresa GarciA-Unzueta, Bernardo Alio LaviN, Elena Arnaiz-GarcíA

Clinical outcome and cost-effectiveness of 1-year nutritional intervention program in COPD

Change of inhaled medications during hospital admissions for acute exacerbation of COPD
Victoria Ridley (London, United Kingdom), Emma Barter, Claire Davey, Richa Singh, Jane Simpson

Association of cardiovascular risk with inhaled long-acting anti-muscarinic antagonists in COPD patients with impaired renal function
Yi-Ching Cheng (Douliou, Taiwan), Hung-Chueh Peng, Yen-Fu Chen, Chung-Yu Chen

Evaluation of vasomotor substances in COPD patients
Olga Arkipkina (Kharkiv, Ukraine), Olga Arkipkina

Systemic inflammatory profile of patients with acute coronary syndrome and concomitant COPD
Sara Soave, Marco Contoli, Marianna Padovani, Barbara Palazzi, Rita Pavanisi, Gianluca Campo, Alberto Papi
PA729 Can BODE index identify right ventricular dysfunction in COPD patients?  
Praveen Kumar Venishetty (WARANGAL, India)

PA730 Diurnal arterial stiffness in patients with chronic obstructive pulmonary disease of varying severity  
Gulnara Dolishnyaya (Saratov, Russian Federation), Nina Karoli, Andrey Rebrov

PA731 Determinants of aortic stiffness compared to level of obstruction and staging of COPD  
Divo Ljubičić (Zagreb, Croatia), Neven Tudorić

PA732 Aortic stiffness in patients with COPD compared to two control groups of smokers and nonsmokers  
Divo Ljubičić (Zagreb, Croatia), Neven Tudorić, Dario Dilber

PA733 Integrity of Membrane Cell as a Risk Factor of Longer Length of Stay in patients with Cardiopulmonary Disease  
Dulce Gonzalez (Ciudad de Mexico, Mexico), Arturo I Orea-Tejeda, Cylo Chávez-Méndez, Giselle Dávila-Said, Carmen Olivo-Villalobos, Rocio Sánchez-Santillán, Viridiana Peláez-Hernández, Karla Balderas-Muñoz, Rogelio Peréz-Padilla, Monica Rivera-Rodríguez, Luis Hernández-Urqueta

PA734 Comorbidity of atherosclerotic diseases in COPD patients.  
Vera Nevzorova (Vladivostok (Primorsky Krai), Russian Federation), Natalia Zakharchuk, Elena Kondrashova, Elena Gonchar

PA735 Acute vascular diseases: Prompting admissions and readmissions in COPD patients  
Rishabh Kochar (Bikaner (Rajasthan), India), Vishakha Mittal, Atul Goel, Renu Dabas

PA736 Acute cor pulmonale during acute exacerbations of COPD: a new phenotype?  
Déborah Boyer (Rouen, France), Elise Artaud-Macari, Dominique Schleifer, David Delacour, Zoubir Djerada, Jean-Nicolas Dacher, Antoine Cuvelier

PA737 Evaluation of a new cardiac arrhythmias predictor in patients with COPD  
ASMA SAIDANE (TUNIS, Tunisia), Jihene Ben Ammar, Manel Ben Hlima, Sana Ouali, Mohamed Slim Mourali, Besma Dhahi, Saloua Azzabi, Hela Cherif, Mohamed Ali Baccar, Hichem Aouina

PA738 Safety of nebivolol and bisoprolol in patients (pts) with COPD and stable angina.  
Oleksandr Feneko (Slobozhanske, Ukraine), Kateryna Bogatska

PA739 Cardiovascular safety of fixed dose combination long acting bronchodilators in stable patients with Chronic Obstructive Pulmonary Disease.  
Sudip Ghosh (Leicester (Leicestershire), United Kingdom), Martin Bridge, Nabeel Shahid, Arwell Jones, Noel O'Kelly

PA740 Utility of electrical bioimpedance by phase analysis to predict the type of heart failure in patients with COPD  

PA741 Platelet activity in patients with COPD and concomitant arterial hypertension  
Kateryna Gashynova (Dnipro, Ukraine), Olena Kovalenko, Viktoriya Rodionova, Liudmyla Glyniyana

PA742 Safety and benefits of beta-blockers in chronic obstructive pulmonary disease: a review of current evidence and meta-analysis  
Ralph Elvi Villalobos (Manila, Philippines), Irene Rosellen Tan, Ruth Marie Divinagracia

PA743 COPD patients require more health care than heart failure patients  
Lennart H. Persson (Linköping, Sweden), Leili Lind, Johan Lyth, Daniel Karlsson, Ann-Britt WiréHn

PA744 Risk factors for asymptomatic atrial fibrillation in patients with COPD  
Elena Samorukova (Moscow, Russian Federation), Elena Leonova, Tatiana Adasheva, Vladimir Zadionchenko, Andrei Malyavin, Sergey Pavlov

PA745 Increased risk of atrial fibrillation in patients with acute exacerbation of chronic obstructive pulmonary disease and sinus rhythm  
Aria Hemat (Moenchengladbach, Germany), Patrick Müller, Christian Jung, Stefan Krüger, Stefanie Keymel

TP-06 Thematic poster: COPD around the world

Session 98 12:50 - 14:40

Disease(s) : Airway diseases, Respiratory infections, Thoracic oncology, Respiratory infections
Method(s) : Cell and molecular biology, Epidemiology, Public health, General respiratory patient care
Chairs : Therese Lapperre (København NV, Denmark), Fabrizio Luppi (Spilamberto (MO), Italy), Miriam Barrecheguren Fernandez (Barcelona, Spain), Marija Vukoja (Sremiska Kamenica, Republic of Serbia)
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<thead>
<tr>
<th>Paper No.</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA746</td>
<td>A cross-sectional study in severe COPD patients in the Middle East and Africa (MEA): Symptoms variability and quality of life</td>
<td>Nurdan Köktürk (Ankara, Turkey), Medhat Soliman, Amr Albanna, Richard Van Zyl Smit, Elmas Malvolti, Dina Ahmed</td>
</tr>
<tr>
<td>PA747</td>
<td>A cross-sectional study in severe COPD patients in the Middle East and Africa (MEA): Methodology and patients' profile</td>
<td>Ashraf Alzaabi (Abu Dhabi, United Arab Emirates), Hakan Gunen, Alev Gurgun, Noureddine Zidouni, Mousa Khadadah, Wael Abuharbid</td>
</tr>
<tr>
<td>PA748</td>
<td>Evaluation of Slow Vital capacity and Forced Vital Capacity in patients with COPD</td>
<td>Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Anastasiya Stupnytska</td>
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<tr>
<td>PA749</td>
<td>Diagnosis of COPD in patients with multidrug-resistant tuberculosis</td>
<td>Halina L Baradzina (Minsk, Belarus)</td>
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<tr>
<td>PA750</td>
<td>Adherence to GOLD guidelines practices in the management of COPD in Tunisia</td>
<td>Aissa Sana (Sousse, Tunisia), Knaz Asma, Benzarti Wafa, Gargouri Imen, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Benzarti Mohamed</td>
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<td>PA751</td>
<td>Disease specific knowledge in Tunisian COPD patients</td>
<td>hadhemi rejeb (Sousse, Tunisia), Rania Kaddoussi, Mouna Ben Khelifa, Seri Jdidi, Imen Ben Saida, Wafa Benzarti, Sana Aissa, Imen Gargouri, Ahmed Abdelghani, Abdelhamid Harrouche, Abdelaziz Hayouni, Mohamed Benzarti</td>
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<tr>
<td>PA752</td>
<td>Evaluation of the demographics, diagnosis and monitoring, management, device usage and adherence among COPD patients: A survey of doctors in Nepal</td>
<td>Ramesh Chokhani (Kathmandu, Nepal), Narendra Bhatta, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay</td>
</tr>
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<td>PA753</td>
<td>Characterization of patients with severe COPD</td>
<td>Rosa Malo De Molina Ruiz (Madrid, Spain), Cristina Esquinas, Carlos Martinez Rivera, Eduardo Marquez Martin, Elsa Naval Sendra, Manuel Valle Falcones, Eva Cabrera Cesar, Ana Boldova Loscertales, Javier Callejas, Marc Miravitlles</td>
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<td>PA754</td>
<td>The distribution of COPD in general practice using three different GOLD classification</td>
<td>Irina Salakhova (Kazan', Russian Federation), Alexander Vizel, Adelya Vafina, Irina Vizel</td>
</tr>
<tr>
<td>PA755</td>
<td>Determinants of dyspnea in COPD patients: the French PALOMB cohort</td>
<td>El-hassane Ouadalaya (Merignac, France), Emilie Berteaud, Alain Bernardy, Jean-Michel Dupis, Marielle Sabatini, Laurent Falgue, Frédéric Le Guillou, Cecilia Nocent-Ejnaimi, Laurent Nguyen, Annia Ozier, Julien Casteigt, Mathieu Molimard, Chantal Raherison-Semjen</td>
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<td>PA756</td>
<td>Opportunistic screening for COPD in primary care - A pooled analysis of 6,710 symptomatic smokers and ex-smokers</td>
<td>Oliver Djurhuus Tupper (København NV, Denmark), Andreas Katsimigas, Peter Kjeldgaard, Charlotte Suppli Ulrik</td>
</tr>
<tr>
<td>PA757</td>
<td>Prevalence of COPD in heroin smokers attending treatment centres assessed using LLN and relationship to drug consumption</td>
<td>Paul Walker (Wirral (Merseyside), United Kingdom), Hassan Burhan, Ryan Young, Tara Byrne, Rob Peat, Jennifer Furlong, Sue Renwick, Tristan Elkin, Sandra Oelbaum</td>
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<td>PA758</td>
<td>Characterization of patients with severe COPD</td>
<td>Rosa Malo De Molina Ruiz (Madrid, Spain), Cristina Esquinas, Carlos Martinez Rivera, Eduardo Marquez Martin, Elsa Naval Sendra, Manuel Valle Falcones, Eva Cabrera Cesar, Ana Boldova Loscertales, Javier Callejas, Marc Miravitlles</td>
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<td>PA760</td>
<td>Determinants of dyspnea in COPD patients: the French PALOMB cohort</td>
<td>El-hassane Ouadalaya (Merignac, France), Emilie Berteaud, Alain Bernardy, Jean-Michel Dupis, Marielle Sabatini, Laurent Falgue, Frédéric Le Guillou, Cecilia Nocent-Ejnaimi, Laurent Nguyen, Annia Ozier, Julien Casteigt, Mathieu Molimard, Chantal Raherison-Semjen</td>
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<td>PA761</td>
<td>Prevalence of COPD in heroin smokers attending treatment centres assessed using LLN and relationship to drug consumption</td>
<td>Paul Walker (Wirral (Merseyside), United Kingdom), Hassan Burhan, Ryan Young, Tara Byrne, Rob Peat, Jennifer Furlong, Sue Renwick, Tristan Elkin, Sandra Oelbaum</td>
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<tr>
<td>PA762</td>
<td>Non-smoking COPD: an overlooked systemic disease, modifiable by physical activity based on studying a cohort of 386,304 subjects</td>
<td>Chin-Chung Shu (Taipei, Taiwan), Ta-Chen Su, June Han Lee, Min Kwang Tsai, Chi-Pang Wen</td>
</tr>
<tr>
<td>PA763</td>
<td>Characteristics of &quot;frequent exacerbators&quot; in mild to moderate COPD patients.</td>
<td>Hye Sook Choi (Gyeongju, Republic of Korea), Young Bum Park, Kwang Ha Yoo, Chin Kook Rhee</td>
</tr>
<tr>
<td>PA764</td>
<td>Bacterial structure of sputum from patients with exacerbations of COPD in a single medical center in Central Kazakhstan</td>
<td>Aigerim Yergaliyeva (Astana, Kazakhstan), Nelya Bisenova</td>
</tr>
</tbody>
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PA765 Should we be doing more to address cardiovascular risk in patients who have COPD? Learning from a quality improvement project at Basildon Hospital.
Oscar Atkins (Bristol (Avon), United Kingdom), Marcus Pittman

TP-07 Session 99 12:50 - 14:40

Thematic poster: Pharmacological management of COPD

Disease(s): Airway diseases, Respiratory infections

Method(s): Epidemiology, Public health, Surgery, General respiratory patient care

Chairs: Nicoletta R. Morelli (Den Haag, Netherlands), Ioannis Bonovolias (Thessaloniki, Greece), Luiza Helena Degani-Costa (São Paulo (SP), Brazil), Michael Tamm (Basel, Switzerland)

PA766 Late Breaking Abstract - Impact of ICS/LABA and LABA/LAMA FDCs on lung function and exacerbation of COPD: a network meta-analysis
Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy), Luigino Calzetta, Paola Rogliani, Francesco Blasi, Stefano Centanni, Claudio Micheletto, Andrea Rossi, Mario Cazzola

PA767 Pseudomonas eradication management in COPD: results from a single centre
Charlotte Wigston (Oxford (Oxfordshire), United Kingdom), Maaz Rana, Hussein Chreif, Katie Jeffery, Mona Bafadhel

PA768 Efficacy and safety of moxifloxacin in the outpatient treatment of exacerbations of chronic obstructive pulmonary disease
Jordan Minov (Skopje, FYROM (Macedonia)), Jovanka Karadzinska-Bislimovska, Tatjana Petrova, Kristin Vasilevska, Saso Stoleski, Dragan Mijakoski

PA769 Risk of pneumonia and exacerbations of chronic obstructive pulmonary disease(COPD) with inhaled corticosteroid (ICS) use: a Singapore perspective
Kenneth Koh (Singapore, Singapore), Pei Yee Tiew, Jessica Han Ying Tan, Rui Ya Soh, Karen Li Leng Tan, Thun How Ong, Mariko Si Yue Koh, Sanjay Haresh Chotirmall, Therese Sophie Lapperre

PA770 Long-term use of inhaled glucocorticoids in stable chronic obstructive pulmonary disease patients and risk of diabetes mellitus: systematic review of the literature
Fabio Arpinelli (Verona (VR), Italy), Paolo Ruggeri, Giuseppe Girbino, Gaetano Caramori

PA771 Audit of Duration of Corticosteroid Treatment in Acute Exacerbations of COPD
Ko Ko Naing (Preston, United Kingdom), Suman Paul, Paul Marsden

PA772 Investigation of breathing parameters of COPD patients inhaling through three different DPI devices
Annamária Szipőcs (Győr, Hungary), Árpád Farkas, János Varga, Zsuzsanna Szalai

PA773 The effect preoperative intervention with long-acting bronchodilator for untreated patients with obstructive lung disease
Yu Mikami (Tokyo, Japan), Taisuke Jo, Hirotaka Matsuzaki, Keisuke Hosoki, Minako Saito, Taro Ishimori, Yasuhiro Yamauchi, Yutaka Yamato, Daiya Takai, Takahide Nagase

PA774 Short-acting bronchodilators for in-hospital management of acute exacerbation of COPD: Systematic Review
Zoe Kopsaftis (Woodville South, Australia), Nur Sulaiman, Kristin Carson, Oliver Mountain, Paddy Phillips, Brian Smith

PA775 Efficacy and safety of budesonide/formoterol fumarate dihydrate metered dose inhaler (BFF MDI) using co-suspension delivery technology compared to monocomponents and an active comparator in COPD
Gary T. Ferguson (Farmington Hills, United States of America), Alberto Papi, Antonio Anzueto, Edward M. Kerwin, Christy Cappelletti, Elizabeth A. Duncan, Jack Nyberg, Paul Dorinsky

PA776 Effect of erdosteine in moderately severe COPD patients
Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom), Clive Page, Roberto W. Dal Negro, Giovanni Fontana, Martin Iversen, Arigo F Cicero, Edoardo Pozzi, Jadwiga A. Wedzicha

PA777 Observational study of adherence to indacaterol/glycopyrronium 110/50µg o.d. (IND/GLY) in COPD
Nicolas Roche (Paris, France), Vincent Le Gros, Mathilde Pouriel, Laurent Decuyperre, Chantal Raherison

PA778 Multiple ascending inhaled doses of AZD8871 in healthy males
Victor Balaguer (Barcelona, Spain), Muna Albayaty, Carol Asbury, Lali Jimenez, Ulrika Wahly Hamren, Beatriz Seoane, Marie-Pierre Malice, Alejandra Lei, Ajay Aggarwal, Ioannis Psalidas, Arnaud Mailleux (arnaud.mailleux@inserm.fr / INSERM U1152,Paris)

PA779 Comparative assessment of hemodynamic parameters in patients with COPD and CHD treated with different groups of bronchodilators.
Iuliia Kharchenko (Kharkiv, Ukraine), Olena Krakhmalova, Alona Tokarieva
Switch from LABA+ICS to a LABA/LAMA combination in symptomatic women with COPD – an analysis of the observational DACCORD study

Peter Kardos (Frankfurt am Main, Germany), Roland Buhl, Carl-Peter Crieke, Nadine Lossi, Claus Vogelmeier, Heinrich Worth

Inhaled anticholinergics affect the heart rate recovery in stable COPD patients

Wei Yuan (Beijing, China), Shan Nie, Haoyan Wang, Qiu fen Xu, Nan Jia

Effects of the long term treatment with Fenspiride upon clinical manifestations of chronic obstructive pulmonary disease

Valentin Calancea (Chisinau, Codru, Republic of Moldova), Sergiu Matcovschi, Nelea Ghicavii, Tatiana Dumitrascu, Eudokia Terna, Nicolae Bodrug, Doina Barba

Evaluation of adequacy of pharmacological treatment in relation to severity in patients with chronic obstructive pulmonary disease (COPD) and their clinical correlations.

Suzana Erico Tanni (Botucatu (SP), Brazil), Bruna Morais, José Zucchi, Estefânia Franco, Thyego Santos, Thais Garcia

Effect of benzodiazepines in hospital readmissions and mortality in patients with chronic obstructive pulmonary disease

Jose Rafael Teran Tinedo (Madrid, Spain), Daniel Eduardo López Padilla, Alicia Oliva Ramos, Lourdes Vicent Alaminos, Luis Puente Maestu

Risk of pneumonia or death in COPD outpatients treated with different lengths of corticosteroids

Pradeesh Sivanpalan (Hellerup, Denmark), Daniel Bech Rasmussen, Truls Sylvan Ingebrigtsen, Rikke Sørensen, Camilla Bjorn Jensen, Kristine Høggaard Allin, Freja Stehr Holm, Josefin Eklöf, Karin Arnbuster, Jens Ulrik Stehr Jensen

Exercise capacity can predict exacerbations and hospitalizations in a 1-year follow up in non-cystic fibrosis bronchiectasis adults

Samia Rached (São Paulo (SP), Brazil), Rejane Agnelo Silva De Castro, Anderson Alves De Camargo, Rodrigo Athanazio, Alberto Cukier, Simone Dal Corso, Rafael Stelmach

Optimization of algorithms of care of patients with infectious extension of bronchiectasis

Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova

Impact of Anemia On Clinically Stable Adult Non-cystic Fibrosis Bronchiectasis

Elif Yelda Oezgun Niksarlioglu (Istanbul, Turkey), Mehmet Atilla Uysal, Burcu Yiğitbaş, Lutfiye Kilic, Güngör Çamsarı

HEALTH RELATED QUALITY OF LIFE (HRQoL) AMONG PATIENTS WITH NON CYSTIC FIBROSIS BROCHIECTASIS (BE) IN STABLE PHASE

Kateryna Gashynova (Dnipro, Ukraine), Guinlar Nagiieva, Tetyana Pertseva, Valeriia Dmytrychenko

Progress, update and challenges faced in establishing the first registry for bronchiectasis in Australia

Enna Stroil-Salama (Milton, Australia), Simone Visser, Janet Moore, Lucy Morgan

Objective CT measurements of the bronchovascular bundle in smokers with bronchiectasis

Alejandro A Diaz (Arlington, United States of America), Yuka Okajima, Diego Maselli, Wei Wang, Andrew Yen, Gregory Kinney, Raul San Jose Estepar

Small Airway Imaging Abnormalities in Smokers with Bronchiectasis

Alejandro A Diaz (Arlington, United States of America), Carlos Martinez, Wassim Labaki, Andrew Yen, Maselli Diego, Yuka Okajima, Greg Kinney, Jeffrey Curtis, Raul San Jose Estepar, Ella Kazerooni, Brian Ross, Galban Craig, Fernando Martinez, Meilan Han

Diagnostic contribution of PICADAR score in etiological evaluation of patients with bronchiectasis of unknown etiology

Erkan Çakir (Istanbul, Turkey), Fatouma Khalil Abdillahi, Ayse Ayyit Atabek, Lina Alshadfan, Hakan Y zaman, Faraz Talebazadeh, Mustafa Nuroy, Ali Toprak
**Bronchiectasis Quality Improvement Project**
Alice Gray (Birmingham (West Midlands), United Kingdom), Peter Gimson, Mathuramina Thiraviyarajah, Maria Mal, Harvey Davies, Yifei Wang, Shaun Thein, Manpreet Kaur Saggu, Sarah Coulter-Brophy, Farrukh Rauf, Anna-Karin Larsson Callerfelt (anna-karin.larsson_callerfelt@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Johan Malmstrom (johan.malmstrom@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University, Lund), Emma Ahman (emma.ahman@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund)

**National survey on management of adult bronchiectasis by respiratory physicians in Belgium**
Natalie Lorent (Leuven, Belgium), Kathleen Schoovaerts, Pieter Goeminne, Lieven Dupont

**The impact of traditional nutrition on reduction of the chronic nonobstructive bronchitis risk in the indigenous peoples living in tundra of the Arctic zone in Western Siberia, Russia**
Irina Protasova (Nadym (Yamal-Nenets), Russian Federation), Sergey Andronov, Andrei Lobanov, Andrei Popov, Lilia Lobanova, Ruslan Kochkin, Elena Bogdanova

**Does continuous positive airway pressure (CPAP) improve the exercise capacity of adults with tracheomalacia?**
Elizabeth Smith (Wythenshawe (Manchester), United Kingdom), Nigel Clayton, Siddiq Pulakal, Stephen Fowler, Robert Niven

**Prophylactic azithromycin in patients with primary ciliary dyskinesia.**
Alix Massiot (Levallois Perret, France), Aline Tamalet, Nicole Beydon, Estelle Escudier, Annick Clement, Harriet Corvol, Guillaume Thouvenin

**Risk factors for chronic bronchitis in indigenous inhabitants of the Arctic zone in Western Siberia, Russia**
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Alexandr Emelyanov, Andrei Popov, Lilia Lobanova, Ruslan Kochkin, Elena Bogdanova, Irina Protasova

**Characterization of pediatric patients diagnosed with post-infectious bronchiolitis obliterans 2,600 meters above sea level.**
Ingrid Gomez (Bogota, Colombia), Olga Fuquen, Diana Echeverry, Margarita Pedraza, Diana Estrada, Angela Soler, Patricia Panqueva Centanaro

**Neuro-psychological adaptation of patients with chronic bronchitis in Arctic conditions**
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Tatiana Popova, Vladimir Kulganov, Andrei Lobanov

**Impact of improvement of environment on dynamics of chronic bronchitis disease in the indigenous peoples of the Arctic zone in Western Siberia, Russia**
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Alexandr Emelyanov, Andrei Popov, Lilia Lobanova, Ruslan Kochkin, Elena Bogdanova, Irina Protasova

**NON-CYSTIC FIBROSIS (CF) BRONCHIECTASIS: A 5-YEAR RETROSPECTIVE STUDY WITH A FOCUS ON PATIENTS WITH PRIMARY IMMUNODEFICIENCIES (PID)**
Héléne Goussault (Saint-Cloud, France), Emilie Catherinot, Nizar Mahlaoui, Colas Thachakian, Héléne Salvador, Alexandre Chabrol, Elisabeth Rivaud, Marie-Laure Chabi, Alain Fischer, Felipe Suarez, Olivier Lortholary, Philippe Devillier, Louis-Jean Coudenc

**One year follow-up of respiratory health outcomes in adult patients with non-Cystic Fibrosis Bronchiectasis**
Berrin Ceyhan (Istanbul, Turkey), Melahat Bekir, Sehnaz Olgun Yildizeli, Derya Kocakaya

**Late Breaking Abstract - Benefits of a low-frequency airway clearance technology in non-CF patients with bronchiectasis**
Katarzyna Iwan (Warszawa, Poland), Dorota Klatka, Agata Gladzka, Laurent Morin, Pawel Sliwinski

**Treatment of diaphragmatic paralysis using an expanded surgical protocol: review of the largest worldwide experience**
Francesco Gargano (Shrewsbury, United States of America), Matthew Kaufman, Thomas Bauer, Reza Jarrahy

**Correlation between high salivary pepsin concentration and chronic pharyngitis.**
Rachel Hodgson (Beverley, United Kingdom), Rachel Hodgson, QiuPeng Wang, XiWang, Peter Dettmar
<table>
<thead>
<tr>
<th>PA808</th>
<th>Effects of trumpet playing on lung function – a case-control study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lia Studer (Basel, Switzerland), Desiree Schumann, Aline Stalder-Siebeneichler, Michael Tamm, Daiana Stolz</td>
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<tr>
<th>PA809</th>
<th>Adenoid cystic carcinoma of trachea masked like asthma</th>
</tr>
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<tr>
<td></td>
<td>Ventsislava Pencheva Genova (Sofia, Bulgaria), Tzanko Mondeshki, Bilyana Stancheva, Daniela Petrova, Radoslav Bilyukov, Ognian Georgiev, Tzvetan Minchev, Daniela Krasimirova, Sevda Naydenska</td>
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<tr>
<th>PA810</th>
<th>Comparison of arterial and venous blood gases in cases with obesity hypoventilation syndrome and neuromuscular disease</th>
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<tbody>
<tr>
<td></td>
<td>Hicran Orucova Mammadova (Istanbul, Turkey), Tulin Cagatay, Penbe Cagatay, Zuleyha Bengol, Gulfer Okumus, Esen Kiyani</td>
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<thead>
<tr>
<th>PA811</th>
<th>The effect of baseline factors on treatment response with MK-7264, a P2X3 antagonist, in refractory chronic cough.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Lorcan P Mcgarvey, Alyn H. Morice, Surinder S Birring, Michael M Kitt, Mandel R Sher, Andrew M Tershakovec, Wen-Chi Wu, Zhi Jin Xu, David R Muccino</td>
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<tr>
<th>PA812</th>
<th>Congenital lobar overinflation in adults - A case series</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Nilab Sarmand (Heidelberg, Germany), Felix Herth, Martin Eichhorn, Daniela Gompelmann</td>
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<tr>
<th>PA813</th>
<th>Pulmonary involvement in Marfan syndrome</th>
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<tbody>
<tr>
<td></td>
<td>Abigail Margit Kolonics-Farkas (Budapest, Hungary), Kalman Benke, Balazs Odler, Aniko Boahes, Zsuzsanna Kovats, Zoltan Szabolcs, Veronika Muller</td>
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<tr>
<th>PA814</th>
<th>Chronic cough is associated with an increased risk of hypertension</th>
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<tr>
<td></td>
<td>Rachel Dockry (Manchester (Greater Manchester), United Kingdom), Carmen Gibbard, Joanne Mitchell, Kimberley Holt, Douglas Corfield, Jaclyn Smith</td>
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<thead>
<tr>
<th>PA815</th>
<th>Are There Any Effects of Respiratory Muscle Strength on Dyspnea, Core Muscle Strength and Functional Capacity in Adolescents with Substance Use Disorder?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Begum Unlu (Istanbul, Turkey), Rustem Mustafaoglu, Rengin Demir, Arzu Ciftci, Zerrin Yigit</td>
</tr>
</tbody>
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<thead>
<tr>
<th>PA816</th>
<th>Respiratory Muscle Strength in Stroke Patients and Healthy Controls: A Case Control Study</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Begum Unlu (Istanbul, Turkey), Abdurrahim Yildiz, Rustem Mustafaoglu, Rengin Demir</td>
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<tr>
<th>PA817</th>
<th>Increased oxidative stress of chronic cough in induced sputum</th>
</tr>
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<tr>
<td></td>
<td>Chang Youl Lee (Chuncheon, Republic of Korea), Ji Young Hong, Myung-Goo Lee, Seung Hun Jang</td>
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<tr>
<th>PA818</th>
<th>Prevalence of inducible laryngeal obstruction (ILO) in unexplained chronic cough (UCC)</th>
</tr>
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<tr>
<td></td>
<td>Simon Gray (Greater Manchester, United Kingdom), Claire Slinger, Jessica Blakemore, Paul Marsden</td>
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<th>PA819</th>
<th>Home-based versus hospital monitoring of respiratory function changes in Duchenne muscular dystrophy (DMD)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Christian Rummey (Basel, Switzerland), Thomas Meier, Mika Leinonen, Shabir Hasham, Thomas Voit, Oscar H Mayer, Gunnar M Buyse</td>
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<th>PA820</th>
<th>Patient characteristics and triggers eliciting refractory chronic cough</th>
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<tr>
<th>PA821</th>
<th>Gastroesophageal reflux (GER)-associated cough: Effect of treatment on cellular and neurogenic inflammation</th>
</tr>
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<tr>
<td></td>
<td>Norihisa Takeda (Nagoya, Japan), Masaya Takemura, Kensuke Fukumitsu, Takamitsu Asano, Yoshihiro Kanemitsu, Eiji Kubota, Akio Niimi</td>
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<tr>
<th>PA822</th>
<th>Patient views on new technologies to assist in the management of chronic cough</th>
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<tr>
<td></td>
<td>Bashar Al-Sheklly (Manchester (Greater Manchester), United Kingdom), Huda Badri, Philip Turner, Jemma Haines, Jacky Smith</td>
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<tr>
<th>PA823</th>
<th>Sensitisation of the cough reflex in childbearing women to mechanical stimuli: a cross-sectional study</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Luis Fernando Giraldo-Cadavid (Bogota DC, Colombia), Secundino Fernandez, Javier Burguete, Nelson Paez, Luis Mauricio Aguadelo-otalora, Mario Arbulo, Ana Maria Galvis</td>
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<tr>
<th>PA824</th>
<th>„The pulmonological mask” of congenital diaphragmatic hernia in children.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Anna Bodajko-Grochowska (Lublin, Poland), Andrzeje Emeryk, Ewa Markut-Miotla, Magdalena Kowalska, Anna Bednarek</td>
</tr>
</tbody>
</table>

### TP-10: Session 102  12:50 - 14:40
Thematic poster: What’s hot in rehabilitation in COPD and interstitial lung disease (ILD)?

- **Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care
- **Method(s):** Public health, Physiology, Transplantation, General respiratory patient care
PA825 Creating a prediction formula for resting energy consumption of patients with COPD and ILD
KEISUKE MORIKAWA (MIE Matsusaka, Japan), Yasunori Imaoka, Hiroyuki Takemura, Kana Kitayama, Shunta Shimoda, Shogo Inaba, Haruka Kusuki, Yu Hashitsume, Momoko Hirose, Yuta Suzuki, Makoto Okada, Corina N. D’Alessandro-Gabazza, Esteban Gabazza, Osamu Taguchi, Osamu Hataj

PA826 Impact of rehabilitation on the muscle strength and exercise tolerance in patients with interstitial pneumonia under steroid therapy
Norihiko Nakanishi (Matsuyama, Japan), Tomonori Moritaka, Kio Inoue, Tomoya Katsuta, Sayaka Tachibana, Kauhiko Saeki, Haruka Kondoh, Junya Nakamura

PA827 The effectiveness of pulmonary rehabilitation in interstitial lung diseases in terms of functional markers
Mária Kerti (Budapest, Hungary), Zsuzsanna Balogh, Krisztina Kelemen, Janos Varga

PA828 Effect of an 8 week pulmonary rehabilitation program in patients with interstitial lung diseases in India.
Nicole Maria Pinto (Mumbai (Maharahstra), India), Poorvi Devani, Priyanka Jain, Abha Pandey, Pralhad Prabhudesai

PA829 Benefits of pulmonary rehabilitation (PR) in patients with chronic obstructive pulmonary disease (COPD) and interstitial lung disease (ILD) having the same dyspnoea severity
Paula Ines Pedro (Odivelas, Portugal), Lilaia Maia Santos, Cristina Braco Forte, Ana Dias, Clara Cruz, Ana Filipe Santos, Fatima Rodrigues

PA830 Associated Factors with the Approval of Pulmonary Rehabilitation for Inpatients with Interstitial Lung Disease: Two-center Retrospective Study
Yuta Takahashi (Tokyo, Japan), Mitsutoshi Akiho, Masahiko Kinura, Ryosuke Tsutigomi, Atsushi Kitamura

PA831 The Efficacy Of Outpatient Pulmonary Rehabilitation After Bilateral Lung Transplantation: Case Series
Ipek Çaylı Candemir (Ankara, Turkey), PiNar Ergun, Dicle Kaymaz, Erdal Yekeler, Seher Satar, Harun Karamanlı, Nese Demir, Nurcan Egesel, Fatma Sengul

PA832 Development of a new prognosis index (BODS) in patients with COPD: a prospective cohort study
Sarah Jones (Berkshire, United Kingdom), Claire Nolan, Suhani Patel, Ruth Barker, Samantha Kon, Michael Polkey, Nicholas Hopkinson, Matthew Maddocks, William Man

PA833 COPD patients with ESOD score 3-4 reduce hospitalizations after a Pulmonary Rehabilitation Program
Paulo José Zimmermann Teixeira (Porto Alegre (RS), Brazil), Rafael Machado De Souza, Álvaro Huber Santos, Ivo Bohn Jr, Mateus Schneider, Cassia Cinara Costa

PA834 Comparison of yoga with pulmonary rehabilitation on body composition, inflammatory biomarkers and dyspnoea in patients with COPD
Randeep Guleria (New Delhi (Delhi), India), Sneh Arora, Pawan Tiwari, Anant Mohan, M Kalaivani, Karan Madan

PA835 Impact of fatigue improvement after pulmonary rehabilitation education on the long-term prognosis of patients with COPD
Yutaro Oki (Kobe, Japan), Akira Tamaki, Yuki Fujimoto, Kanji Yamada, Yuji Mitani, Yusuke Iwata, Takumi Yamaguchi, Akio Yamamoto, Hiromi Kaneko, Mineko Ohira, Akira Ishikawa

PA836 Effective of peripheral muscular neuromuscular electrical stimulation (NMES) as the rehabilitation of severe chronic obstructive pulmonary disease (COPD) patients.
Tatyana Kunafina (Korolev, Russian Federation), Aleksey Grigorievich Chuchalin, Andrey Stanislavovich Belevskiy, Natalia Nicolayevna Meshcheriakova

PA837 Effect of pulmonary rehabilitation on balance control in patients with COPD
Murat Öztürk (Istanbul, Turkey), Ipek Özmen, Mine Gülden Polat, Elif Yıldırım, Meral Karakış

PA838 Changes of transdiaphragmatic pressure and breathing pattern during different levels of inspiratory loading
Yo Tamura (Tokyo, Japan), Masahiko Kimura, Yuji Iwanami, Manaka Shibuya, Tsuyoshi Ichikawa, Masanori Yokoba, Atsuhiko Matsunaga

PA839 A prospective observational study on long-term non invasive ventilation (L-T NIV) in COPD patients attending an inpatient pulmonary rehabilitation program (PRP)
Elisa Chellini (Firenze (FI), Italy), Claudia Mannini, Biagio Campana, Paolo Innocente Banfi, Eleonora Volpato, Antonella Arcadu, Isabella Romagnoli, Barbara Lanini, Francesco Gugliotti

PA840 Relationship between intrathoracic pressure and inspiratory volume during manually breathing assist technique
Yuji Iwanami (tokyo, Japan), Masahiko Kimura, Yo Tamura, Manaka Shibuya, Tsuyoshi Ichikawa, Masanori Yokoba, Atsuhiko Matsunaga
### PA842 Knowledge and skills for inhaled drugs before and after a rehabilitation program in COPD: a real life study
Domenico Fiorenza (Gussago (BS), Italy), Alessandra Montini, Giovanna Benedetti, Antonella Pluda, Cristina Zanoni, Mara Paneroni, Michele Vitacca

### PA843 Pulmonary and Exercise Improvement by choir singing in COPD Patients
Katrin Enste (Hürth, Germany), Anette Einzmann, Bernd Gast, Dennis Ladage, Sebastian Schlünz, Konrad Frank

### PA844 Tai Chi for People with COPD: A comparison of baseline characteristics with standard Pulmonary Rehabilitation attendees
Keir Philip (London, United Kingdom), Claire Davey, Brendan De Luca, Lucy Gardiner, Rishi Gupta, Jane Simpson

### TP-11 Session 103 12:50 - 14:40

#### Thematic poster: Imaging of various diseases with different imaging modalities

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chair(s)</th>
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<tbody>
<tr>
<td>Thoracic oncology</td>
<td>Cell and molecular biology</td>
<td>Heinrike Wilkens (Homburg (Saar), Germany), Aleksandar Grgic (Homburg, Germany), Johan Coolen (Leuven, Belgium), Chair to be confirmed</td>
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<tr>
<td>Respiratory critical care</td>
<td>Epidemiology</td>
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<tr>
<td>Pulmonary vascular diseases</td>
<td>General respiratory patient care</td>
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<tr>
<td>Respiratory infections</td>
<td>Surgery</td>
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<td>Airway diseases</td>
<td>Endoscopy and interventional pulmonology</td>
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<td>Interstitial lung diseases</td>
<td>Imaging</td>
<td></td>
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<td>Respiratory infections</td>
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</table>

#### PA845 Factors associated with the growth of ground-glass opacity nodules on chest computed tomography
Jung Hyun Chang (Seoul, Republic of Korea), Yon Ju Ryu, Jin Hwa Lee

#### PA846 Matching morphological and molecular analysis of not-solid neoplastic lung nodules. A single institution experience
Giulia Maria Stella (Pavia (PV), Italy), Antonio Ciuffreda, Maria Chiara Mennitti, Patrizia Morbini, Filippo Antonacci, Chandra Bortolotto, Roberta Cataniò, Roberto Dore

#### PA847 Quantification of neutrophil accumulation in early lung cancer
Nicola Tregay (Cambridge (Cambridgeshire), United Kingdom), Neda Farahi, Laurence Lok, Chrystalla Loutsios, Chandra Solanki, Daniel Gillett, John Buscombe, Uta Hill, Giuseppe Aresu, Adam Peryt, Robert Rintoul, Frank McCaughan, A. Micheal Peters, Edwin Chilvers

#### PA848 Imaging features in post-operative lung cancer recurrence
Monia Attia (La Marsa, Tunisia), Henda Neji, Mariem Affes, Soumaya Ben Saad, Houda Gharsalli, Ines Baccouche, Saoussen Hantous, Khaoula Ben Miled

#### PA849 Impact of video-fluoroscopic swallow studies on paediatric feeding management and clinical status
Khaled Akel (Arara, Israel), Hannah Blau, Yuliana Eshel, Silvia Grozovsky, Julia Gendler, Huda Muzzaffi, Meir Mei Zahav, Dario Prais, Guy Steuer, Chagit Levine, Patrick Staffler

#### PA850 Usefulness of automatic pulmonary artery extraction in bronchoscopic navigation system
Mamoru Kunisaki (Sapporo, Japan), Naofumi Shinagawa, Hirohumi Takahashi, Yuta Takashima, Megumi Furuta, Tetsuaki Shoji, Hidenori Kitai, Machiko Sasaki, Hidenori Mizugaki, Hajime Kikuchi, Eiki Kikuchi, Jun Sakakibara, Masaharu Nishimura

#### PA851 Mapping cardiac-induced lung motion using high-resolution time-resolved phase-contrast synchrotron computed tomography
Luca Fardin (Grenoble, France), Ludovic Broche, Goran Lovric, Anders Larsson, Alberto Bravin, Sam Bayat

#### PA852 Scarring on chest radiograph – is it what it seems?
Huijia Wang (Singapore, Singapore), Cynthia Chee, Yee Tang Wang, Gregory Kaw

#### PA853 The peculiarities of computed tomography (CT) patterns in patients with pulmonary mycobacterioses caused by slowly growing mycobacteria
Natalia Makaryants (Moscow, Russian Federation)

#### PA854 Study to assess the need for CT abdomen/pelvis in patients with unprovoked pulmonary embolism
Zeeshan Mustafa (Stoke-on-Trent (Staffordshire), United Kingdom), Arushi Sharma, Aqias Khaliq, Mohammed Haris

#### PA855 Prevalence of increased ratio between the right and left ventricles among patients undergoing CT pulmonary angiography with and without evidence of pulmonary embolism
Avi Man (Tel-Aviv, Israel), Yzhak Hadad, Moshe Iluzé, Shlomo Berliner, Tomer Ziv-Baran, Zach Rozenbaum, Galit Aviram

#### PA856 Utility of chest echography and pulmonary infection score in early diagnosis of ventilator associated pneumonia
Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Mohammad Aghaa, Rehab Habeab, Reda Ibrahim
### Imaging of organizing pneumonia
Samy Kammoun (Sfax, Tunisia), Fendri Hela, Feki Wiem, Guermazi Haifa, Feki Walid, Mzid Yosra, Daouda Emna, Fourati Hela, Mnif Zeineb

### What is the role of chest imaging in primary immunodeficiency disorders? About twelve cases
Samy Kammoun (Sfax, Tunisia), YOSERA MZID, Wiem Feki, Walid Feki, Hela Fendri, Emna Daoud, Hela Fourati, Zeineb Mnif

### Relationship between HRCT changes and clinical parameters in patients with scleroderma
David Laszlo Tarnoki (Budapest, Hungary), Adam Domonkos Tarnoki, Vladyslava Skakun, Kinga Karlinger, Eniko Barczi, Aniko Bohacs, Veronika Muller

### Layout of alveoli and pores of Kohn on magnified 3D printed model of the peripheral lung specimen by micro CT
Hiroshi Natori (Sapporo, Japan), Hirotsugu Takabatake, Masaki Mori, Kensaku Mori, Masahiro Oda, Hiroyuki Koba, Hiroki Takahashi

### Characteristics of images from CT scans in elderly patients with acute cardiogenic pulmonary edema
Hirokazu Touge (Yonago, Japan), Katsuyuki Tomita, Masaharu Fukuki, Ryota Nagao, Tomoyuki Ikeuchi, Hiromitsu Sakai, Akira Yamasaki, Eiji Shimizu

### The added value of computed tomography to thoracentesis and chest x-ray for discriminating malignant from non-malignant causes in unilateral pleural effusions
Simon Reuter (Roskilde, Denmark), Barbara Malene Fischer, Paul Clementsen, Uffe Bødtger

### The diagnostic value of 18F-FDG PET/CT scanning for discriminating malignant from non-malignant causes in unilateral pleural effusions
Simon Reuter (Roskilde, Denmark), Barbara Malene Fischer, Paul Clementsen, Uffe Bødtger

### Correlation of CT Image registration-based metrics of regional ventilation distribution with lung function and exercise capacity in COPD patients: a pilot study
Julien COHEN (GRENOBLE CEDEX 9, France), Ludovic Broche, Gilbert Ferretti, Meriem Benmerad, Sébastien Bailly, Cevdet Ozcelik, Renaud Tamisier, Jean Louis Pépin, Sam Bayat

### Session 104 12:50 - 14:40

**Thematic poster: Linear and radial EBUS and peripheral nodules**

**Disease(s):** Thoracic oncology, Respiratory infections, Airway diseases, Interstitial lung diseases, Respiratory critical care

**Method(s):** Imaging, General respiratory patient care, Endoscopy and interventional pulmonology

**Chairs:** Laurence M.M.J. Crombag (Huizen, Netherlands), Ales Rozman (Golnik, Slovenia), Artur Szlubowski (Kraków, Poland), Jouke T. Annema (Amsterdam, Netherlands)

#### PA865
**Is USG Morphological Features on EBUS TBNB useful for predicting malignancy?**
Umang Shah (NAVI MUMBAI (Maharashtra, India), Arpan Shah, Chandrakant Shah

#### PA866
**Utility of routine microbiological testing on Endobronchial Ultrasound (EBUS) guided lymph node aspirates**
(, ), Sean Walsh (tagoat, Ireland), David Storey, Brian Mccullagh, Dermot O’Callaghan

#### PA867
**Critical aspects of Spontaneous Pneumothorax management in secondary care**
George Antunes (Saliburn by the sea, United Kingdom), Michael Mather, Afzara Ahmmed

#### PA868
**Performance of Endobronchial Ultrasound Transbronchial Needle Aspiration (EBUS-TBNA) with Rapid On-Site Evaluation (ROSE) in the pathological subtyping and molecular testing of non-small cell lung cancer (NSCLC) at a UK institute**
Christopher Craig (Manchester (Greater Manchester), United Kingdom), Simon Bailey, Nadira Narine, David Shelton, Sakinah Thiryayi, Durgesh Rana, Haider Al-Najjar

#### PA869
**Safety of endoscopic versus endobronchial ultrasound in real world - data from multicenter register**
Ilya Sivokozov (Moscow, Russian Federation), Natalya Makaryants, Oksana Yun, Dmitry Sazonov, Sergey Sokolov, Dmitriy Dedushkin, Svetlana Pavlova, Natalya Li

#### PA870
**EBUS guided Transbronchial needle biopsy (EBUS TBNB) of subcarinal lymph nodes – a Pilot study**
Prince James (Vellore (Tamil Nadu), India), Richa Gupta, Balamugesh Thangakulam, Barney Isaac

#### PA871
**Correlation of final pathology with the ROSE used during the EBUS-TBNA**
Benan Caglayan (Istanbul, Turkey), Sinem Iliaz, Pinar Bulutay, Ayse Armutlu, Fatma Isil Uzel, Ayse Bilge Ozturk, Leyla Pur Ozyigit
PROPOFOL SEDATION FOR FLEXIBLE BRONCHOSCOPY (FB) AND ENDOBRONCHIAL ULTRASOUND BRONCHOSCOPY (EBUS): OUR EXPERIENCE.
Ana Maria Andres Porras (Valladolid, Spain), Sofía Jaurrieta Largo, Ignacio Lobato Astiarraga, Blanca De Vega Sánchez, Ana Isabel García Onieva, María José Chourio Estaba, María Irene Alaejos Pascua, María Beatriz Cartón Sánchez, Isabel Ramos Cancelo, Carlos Disdier Vicente

Is there any added value of EBUS-TBNA to the identification of non-avid PET-CT lymph nodes?
Upul Pathirana (Kurunegala, Sri Lanka), Damith Rodrigo, Vasiliki Gerovasili, Jaymin Morjaria

Efficacy and safety of dexmedetomidine versus midazolam sedation in patients undergoing endobronchial ultrasound-guided transbronchial needle aspiration: a double blind randomized controlled trial
Ashutosh Aggarwal (Chandigarh (Uttar Pradesh), India), Renu Kumari, Kajal Jain, Ritesh Agarwal

Assessment of histological samples obtained from peripheral lung lesions by using transbronchial forceps and cryobiopsies guided with radial EBUS
Mohamed Samy Abdelmegeed Torky (Tanta, Egypt), Felipe Andreo, Wafaa S Elshimy, Mohamed Abdelwahab, Ghada Atef Attia, Raquel Lopez, Jose Luis Mate, Carmen Centeno, Pere Serra, Rachid Tazi Mazalek

Biopsy through lung parenchymal lesion using virtual bronchoscopy navigation (VBN) Archimedes with EBUS sheath tunneling
Joseph Ramzy (Philadelphia, United States of America), John Travaline, Jiji Thomas, Matthew Basile, Patrick Massetti, Gerard Criner

Feasibility of low-dose three-dimensional CT for peripheral bronchoscopy
Jung Seop Eom (Busan, Republic of Korea), Insu Kim, Mim Ki Lee, Seyeon Park

Algorithmic interventional approach can successfully and safely diagnose-stage bronchoscopically invisible peripheral lung lesions.
Philip Emmanouil (Athens, Greece), Abdelfattah Touman, Nikolaos Koufios, Vlasios Vitsas, Ioannis Athanasopoulos, Nikolaos Koulouris, Grigoris Stratakos

Marco Trigiani (Ghedi (BS), Italy), Margherita Innocenti, Michela Bezzi

Accuracy of mutation analysis in small tissues from transbronchial lung biopsy with radial probe endobronchial ultrasound
INSU KIM (Busan, Republic of Korea), Jung Seop Eom, Min Ki Lee, Seyeon Park

Electromagnetic Navigation Bronchoscopy (ENB) in patients with severe COPD.
Jean-Baptiste Stern (Paris Cedex 14, France), Thibault Vieira, Marine Lefevre, Philippe Girard, Raffaele Caliandro

PD-L1 determination in cytological and histological samples in patients with non-small cell lung cancer
Sonia Margarita Baëza Mena (barcelona, Spain), Carmen Angela Centeno Clemente, Felipe Andreo García, Pere Serra Mitja, Rachid Tazi Mezalek, Jose Luis Mate Sanz, Carlos Martinez Barenys, Enric Carcereny Costa, Victor Margeli Cervera, Jorge Abad Capa

Transparietal chest pathology biopsy under CT control.
Peter Kukol (Vysne Hagy, Slovakia)

Diagnostic rate of endobronchial ultrasound with transbronchial needle aspiration (EBUS-TBNA) for benign causes of mediastinal lymphadenopathy
Xiao Ya Hu (Sydney (NSW), Australia), John Wheatley, Peter Wu

Thematic poster: Pleural interventions

TP-13  Session 105  12:50 - 14:40

Disease(s): Thoracic oncology, Airway diseases, Respiratory critical care, Respiratory infections

Method(s): Respiratory intensive care, Surgery, General respiratory patient care, Endoscopy and interventional pulmonology

Chairs: Najib M. Rahman (Oxford, United Kingdom), Rahul Bhatnagar (Bristol, United Kingdom), Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom), Peter I. Bonta (Amsterdam, Netherlands)

PA885 Late Breaking Abstract - Day case medical thoracoscopy safety: tertiary centre review
Hugh Ip (London, United Kingdom), Sarah Ahmed, Alex West, Liju Ahmed
Multicenter review suggests tunneled pleural catheter use in antineoplastic therapy-related immunosuppression does not increase infection rate

Candice Wilshire (Seattle, United States of America), Christopher Gilbert, Jason Akulian, Rachelle Asciak, Benjamin Bevill, Kevin Davidson, Ashley Delgado, Hans Lee, Justin Lewis, Fabien Maldonado, Nicholas Pastis, Najib Rahman, Chakravarthy Reddy, Lance Roller, Henry Steer, Momen Wahidi, Howard West, Amber Wright, Lonny Yarmus, Jed Gorden

Multidisciplinary approach to connective tissue disease (CTD) related pleural effusions

Eugene Ace McDermott (London, United Kingdom), Hugh Ip, Parthipan Sivakumar, Sangita Agarwal, Boris Lams, Alex West, Lijjy Ahmed

Comparison between small-bore catheters and large-bore chest tubes for the management of complicated paraneumonic pleural effusion.

Julia Herrero Huertas (Oviedo, Spain), Francisco Lopez Gonzalez, Ariel Moreda, Ines Ruiz Alvarez, Tamara Hermida Valverde, Carmen Osoro Suarez, Andres Ortiz Reyes, Lucia Garcia Alfonso, Ana Isabel Enriquez Rodriguez, Cristina Hernandez Gonzalez, Pere Casan Clara

MITOXANTRONE PLEURODESIS - WHEN TALC IS NOT AN OPTION!

Roberto Emidio Meleira Taborda da Silva (Covilhã, Portugal), Juliana Barata, Mafalda Batista, Sara Martins, Inês Vicente, Eunice Magalhães, Jesus Valente, Sáiole Erenke

Variable adoption of intrapleural fibrinolytic therapy for pleural space infections

Anve Sophia Jackson (Seattle, United States of America), Joshua R Rayburn, Carson C Fuller, Candice L Wilshire, Christopher R Gilbert, Brian E Louie, Ralph W Aye, Eric Vallieres, Alex S Farivar, Adam J Bograd, Kimberly E Costas, John R Handy, Svetlana Kotova, Jed A Gorden

C.T assisted Abrams needle pleural biopsy for diagnosis of cases with exudative pleural effusion

Ahmed Kabil (Cairo, Egypt), Fares Ouf, Talaat Arfa, Nabil Awad, Hussein Yassin

Smear cytology of Pleural nodule during Thoracoscopy - A new approach for early diagnosis of Pleural pathology.

Prince James (Vellore (Tamil Nadu), India), Richa Gupta, D J Christopher, Balamugesh Thangakulam, Jennifer Prabhu

Implementation of medical thoracoscopy after an ERS course: a survey.

Stavros Anevlavis (Komotini, Greece), Sarah Dowsland, Philippe Astoul, Marios E. Froudarakis

Developing an integrated pleural service

Bakere Hugh (United Kingdom), Elizabeth Batalla-Duran

Respiratory Medicine trainees’ experience with large bore chest drains: Results from a UK wide national survey.

Sannaan Irshad (Derby (Derbyshire), United Kingdom), Ahmad Kamal Azri Ab Asa’ari, Usman Maqsood, Shahnaz Piracha, Shahul Leyath Ali Khan, Nadeem Maddekar, Muhammad Haris, Muhammad Badar Ganaie

Povidone iodine vs. oxytetracycline efficacy in pleurodesis of patients with malignant pleural effusion

Anjuli May Jaen (Pasay City, Philippines), Tomasito Sy, Elvie Victontette Gonzalez

Utility of bronchoscopy in pleural effusion of unknown origin

Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Leyre Serrano Fernandez, Beatriz Gomez Crespo, Marta Garcia Moyano, Idoia Salinas Garrido, Beatriz Gonzalez Quero, Luis Alberto Ruiz Iturriaga, Rafael Zalacain Jorge

Pneumothorax induction with a Boutin needle without ultrasound guidance during local anaesthetic thoracoscopy.

Mark Watson (London, United Kingdom), Samal Gunatilake, Jonathan Owen, Herve Jullian

Indwelling pleural catheters vs. pleurodesis for malignant pleural effusions: a meta-analysis

Anjuli May Jaen (Pasay City, Philippines), Ralph Elvi Villalobos, Ruth Divinagracia, Irene Tan

Outcome of early medical thoracoscopy in pleural infection.

Søren Helbo Skaarup (Aarhus C, Denmark), Giampietro Marchetti

Comparative study of cryobiopsy and forceps biopsy on thoracoscopy in undiagnosed pleural effusions at a tertiary care centre in India

Abhijit Vinod Ahuja (Mumbai (Maharashtra), India), Jeenam Shah, Rajiv Goyal

Comparison of analgesic use during pneumothorax treatment using ambulatory device and chest drainage

Milan Sova (Olomouc, Czech Republic), Martin Poruba, Petr Jakubec, Jaromir Zatloukal, Karel Urbanek, Vitezslav Kolek
Thematic poster: Primary care management of COPD

Disease(s): Airway diseases

Method(s): Public health  Epidemiology  Respiratory intensive care  General respiratory patient care

Chairs: Rachel Jordan  (Birmingham (West Midlands), United Kingdom), Evelyn Brakema  (Amsterdam, Netherlands), Persijn Honkoop  (Leiden, Netherlands), Patrick T. White  (London, United Kingdom)

Using a rapid prioritisation process to identify health research priorities in LMICs
Rachel Jordan  (Birmingham (West Midlands), United Kingdom), Andy Dickens, Peymane Adab, Kar Cheng, Chunhua Chi, Brendan Cooper, Jaime Correia De Sousa, Alexandra Enoescon, Amanda Farley, Nicola Gale, Kate Jolly, Sue Jowett, Mariam Maglakelidze, Tama Maglakelidze, Sonia Martins, Radmila Ristovska, Alice Sitch, Katarina Stavrikj, Rafael Stelmach, Alice Turner, Sian Williams

Peak-flow or portable spirometry as a replacement for Spirometry in the diagnosis of COPD and Asthma
Sanjeev Nair  (Trivandrum (Kerala), India), Arjun Padmanabhan, Anitha Kumari

Describing “real world” COPD patients in primary care in Germany – Findings of the BeoNet-Registry
Carolina Judith Klett-Tammen  (Hannover, Germany), Heidrun Lingner, Alexander Kuhlmann, Torben Schmidt, Johanna Lutter, J M Von Der Schulenburg, Michael Kreuter, Tobias Welte

Health status changes in Dutch regular COPD patients classified per GOLD category
Harja J. Mol-Alma  (Groningen, Netherlands), Corina De Jong, Robbert Sanderman, Janwillem Kocks, Thys Van Der Molen

Asthma and Chronic Obstructive Pulmonary disEase Decision Support System (Asthmacope DSS) for managing neglected chronic respiratory diseases in resource constrained primary health care setting in India
Raghupathu Anchala  (Hyderabad (Andhra Pradesh), India)

Health seeking behaviour and care provided to obstructive airway disease patients in Trivandrum, South India
Padnanabhan Arjun  (Trivandrum (Kerala), India), Sanjeev Nair, Anitha Kumari

COPD GOLD 2017 guidelines adherence in Swiss pulmologists and general practitioners
Joana Marmy  (Liestal, Switzerland), Jens Diedrich, Thomas Dieterle, Jörg Leuppi

Improvement of self-reported physical functioning with tiotropium/olodaterol in Central and Eastern European COPD patients
Arschang Valipour  (Wien, Austria), Michael Tamm, Jana Kociánová, Valentina Bayer Zubek, Alexey Medvedchikov, Monika Haaksma Herczegh, János Mucsi, Zvi Fridlender, Claudia Toma, Andrey Belevsky, Bohumil Matula, Jurij Sorli

National and international expansion of capacity building model of India for primary care physicians(PCPs) in the management of COPD & Asthma
Haresh Chandwani  (Gurgaon (Haryana), India), Sourabh Sinha, Shilpa Jain, Priyanka Gupta, Sandeep Bhalla, Bv Murali Mohan, Monica Barne, Sundeept Salvi, Dorairaj Prabhakaran

The impact of obstructive airway diseases (OADs) training on knowledge level of 385 allied health professionals in India
Madhuragauri Shevade  (Pune (Maharashtra), India), Komalkirti Apte, Sapna Madas, Nisha Kale, Sundeept Salvi

The MISTRAL study: COPD treatment by general practitioners – diagnosis, treatment decisions, and cooperation with pneumologists
Khesraw John Karmand  (Xanten, Germany), Thomas Voshaar, Lucia Krott

Step-down of non-indicated triple therapy in COPD using routine primary care data: A regional pilot study
Andrew Creamer  (Bristol (Avon), United Kingdom), Elizabeth Mallett, Angela Stinchcombe, J Calvert

Why prescribe ICS to Dutch COPD patients in primary care, and when and how to stop. Data from focus groups with patients and health care providers
Corin de Jong  (Groningen, Netherlands), Job Van Boven, Tjard Schermer, Roland Riemersma, Ebian Brill, Maarten Van Den Berge, Thys Van Der Molen, Janwillem Kocks

Data mining Inhaled corticosteroid Beclometasone dipropionate (bdp) equivalent dose from routine primary care records
Chris Newby  (Leicester (Leicestershire), United Kingdom), Diamar Marke, Shauna Mckibben, Chris Griffiths
PA919  **REducing Delay through edUcation on eXacerbations (REDUX) in patients with COPD**
Cynthia Hallensleben (Capelle aan den IJssel, Netherlands), Jaco Biuwenga, Job F.M. van Boven, Niels H. Chavannes

PA920  **The risk of repeated hospitalizations for exacerbations of chronic obstructive pulmonary disease**
Rustem Khamitov (Kazan (Republic of Tatarstan), Russian Federation), Alfa Iakupova, Aigoul Zinnatullina

PA921  **Prediction of future COPD exacerbations - DOSE index or a history of exacerbations?**
Björn Ställberg (Uppsala, Sweden), Marieann Högman, Christer Janson, Kristina Bröms, Andrei Malinovschi, Karin Lisspers

PA922  **Understanding referral to Pulmonary Rehabilitation for COPD patients by Primary Health Care staff - a qualitative study using the Theoretical Domains Framework.**
Jane Watson (Cambridge (Cambridgeshire), United Kingdom), Rachel Jordan, Paymane Adeb, Alexandra Enochson, Sheila Greenfield, Ivo Vlaey

PA923  **TANDEM (Tailored intervention for ANXiety and DEpression Management in COPD) trial: Qualitative interviews with health care professionals from the pilot phase**
clarisse dibao-dina (tours, France), Stephanie Taylor, Hilary Pinnock, Elizabeth Steed, Sarah Saqi-Waseem, Moira Kelly

PA924  **Participant experiences in TANDEM feasibility pilot**
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Amy Barradell, Ratna Sohanpal, Kristie-Marie Mammoliti, Anna Moore, Stephanie Je Taylor

TP-15  **Session 107**  12:50 - 14:40

**Thematic poster: Functional genomics and COPD: new challenges**

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
</tr>
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<tbody>
<tr>
<td>Airway diseases</td>
<td>General respiratory patient care</td>
<td>Sukhwinder Singh Sohal (Launceston (TAS), Australia), Isabelle Vachier (Montpellier, France), Aurélien Justet (Paris, France), Guillaume Beltramo (Dijon, France)</td>
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<tr>
<td>Interstitial lung diseases</td>
<td>Physiology</td>
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<td>Pulmonary vascular diseases</td>
<td>Epidemiology</td>
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<td>Respiratory infections</td>
<td>Cell and molecular biology</td>
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<td>Respiratory infections</td>
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PA926  **DNA methylation and gene expression changes in human lung fibroblasts occur already in mild COPD and progress with disease development**
Renata Jurkowska (Heidelberg, Germany), Uwe Schwartz*, Maria Llamazaes Prada*, Mandy Richter, Raluca Tamas, Thomas Muley, Arne Warth, Dieter Weichenhan, Benedikt Brors, Karsten Quast, David Wyatt, Christoph Plass

PA927  **SNPs which influence the transcriptional response to acute smoke exposure are associated with long term lung function decline in smokers**
Alen Faiz (Groningen, Netherlands), Ehab Billatos, Marc Lenburg, Avrum Spira, Judith Vonk, Marike Boezen, Irene Heijink, Maarten Van Den Berge

PA928  **The genomic instability in clean-up workers of Chornobyl NPP with COPD**
Lyudmila I. Shwayko (Kyiv, Ukraine), Kostiantyn Bazyka, Iryna Ilienko , Natalya Golyarnik

PA929  **Cigarette smoke extract alters genome-wide profiles of circular RNAs in primary human alveolar epithelial cells**
Zeng Ni (Beijing, China), Shen Yongchun, Wen Fuqiang

PA930  **Dynamics of oxidative and antioxidant parameters of the exhaled air condensate in COPD.**
Igor A. Klimanov (Moscow, Russian Federation), E Zaprudnova, P Zhestkov, Sayd Manas, M Smirnov , M Glukhova, O Brodkayskaya, S Soodaeva

PA931  **LIPID PEROXIDATION IN PATIENTS WITH COPD AND CHRONIC HEART FAILURE.**
Igor A. Klimanov (Moscow, Russian Federation), Anastasia Khatekskaya, Aleksandr Kuznechov, Klavdia Kontorschikova , Nailiya Kubyshева, Daria Leonova, Anastasia Bobkova, S Soodaeva

PA932  **Systemic inflammation is associated with mitophagy signalling in skeletal muscle of COPD patients**
Harry R. Gosker (Maastricht, Netherlands), Pieter A. Leermakers, Anita E. Kneppers, Marco C. Kelders, Chiel C. De Theije, Annemie M. Schols

PA933  **Oxidative stress indicators in patients with an exacerbation of COPD**
Svetlana K. Soodaeva (Moscow, Russian Federation), Nailiya Kubyshева, Igor Klimanov, Timur Li, Mary Glukhova, Tatyana Eliseeva, Lidiya Nikitina

PA934  **Metabolic paralysis in systemic immune cells of Chronic Obstructive Pulmonary Disease (COPD) subjects.**
Ankita Brahme (Pune (Maharashtra), India), Smita Kadam, Manas Agrawal, Komalkirti Apte, Govinda Narke, Sapna Madas, Sundeep Salvi, Amit Agarwal
| PA935 | To the molecular genetic mechanisms of the COPD pathogenesis  
Vyacheslav Kobylyansky (Moscow, Russian Federation) |
| PA936 | Molecular characterization of novel PiS-like alleles identified in Spanish patients with Alpha-1 antitrypsin deficiency  
Nerea Matamala (MADRID, Spain), Gema Gomez-Mariano, Selene Martinez, Alejandro Damian, Virginia Aquino, Sheila Ramos, Irene Gonzalez, Raquel Saez, Igor Iturbe, Javier Michel De La Rosa, Maria Molina-Molina, Maria Del Puerto Cano, Ignacio Blanco, Cristina Esquinas, Francisco Casas-Maldonado, Beatriz Martinez-Delgado |
| PA938 | Cytochrome P450 2A5 methylation and gene expression profile is organ-specific and affected by maternal smoking during pregnancy  
Khosbayar Lkhagvadorj (Groningen, Netherlands), Karolin F. Meyer, Laura P. Verweij, Zhijun Zeng, Torsten Plösch, Machtedl Hylkema |
| PA939 | Role of β2-adrenergic receptor in cigarette smoke-induced COPD in mice  
Anne Orholm Nielsen (Køge, Denmark), Steen Seier Poulsen, Morten Dahl |
| PA940 | Impaired skeletal muscle kynurenine metabolism in patients with COPD  
Harry R. Gosker (Maastricht, Netherlands), Gerard Clarke, John F. Cryan, Annemie M. Schols |
| PA941 | Dysregulation of circadian clock genes in human pulmonary vascular cells exposed to cigarette smoke extract: possible involvement of epigenetic modification  
Tao Wang (Chengdu (Sichuan), China), Yuru Lan, Zhicheng Yuan, Jun Chen, Fuqiang Wen |
| PA942 | Blood levels of matrix metalloproteinases (MMPs) and tissue inhibitors of matrix metalloproteinases (TIMPs) as biomarkers of COPD.  
Dimo Dimov (Stara Zagora, Bulgaria), Tanya Tacheva, Donika Ivanova, Yanitsa Zhelyazkova, Denitsa Vlaykova, Maya Gulubova, Tatyana Vlaykova |
| PA943 | The KEAP1/NRF2 signaling system genes and theirs target genes are associated with COPD  
Iulia Aznabaeva (Ufa (Republic of Bashkortostan), Russian Federation), Gulnaz Korytina, Leysan Akhmadishina, Olga Kochetova, Shamil Zagidullin, Tatyana Victorova |
| PA944 | Role of NKX2-1 in diffuse infiltrative pneumonia  
Elodie NATTES (CRETEIL, France), Alix De Becdelievre, Pierre Lesimple, Marion Ondée, Céline Delestrain, Ralph EPAud, Pascale Fanen |

**TP-16**  
Session 108  
12:50 - 14:40

**Thematic poster: Studying novel biomarkers in asthma and COPD**

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** Imaging, Epidemiology, Physiology, General respiratory patient care, Cell and molecular biology

**Chairs:** Ian M. Adcock (London, United Kingdom), Gareth Hynes (Oxford (Oxfordshire), United Kingdom), Sophie Hardy (Gembloux, Belgium), Ilona Elisabeth Kammerl (München, Germany)

| PA945 | Lymphocyte senescence in COPD is associated with decreased sirtuin 1 expression in steroid resistant pro-inflammatory lymphocytes  
Greg Hodge (Adelaide (SA), Australia), Hubertus Jersmann, Hai Tran, Rhys Hamon, Eugene Roscioli, Mark Holmes, Paul Reynolds, Sandra Hodge |
| PA946 | Cytogenetic analysis in peripheral blood lymphocytes from allergic and non-allergic asthmatic patients  
Andrey Lintsov (St.Petersburg, Russian Federation), Boris Uslontsev, Nadezhda Pleskach, Viktor Mikhailov |
| PA947 | Consistently low blood lymphocytes in smokers are associated with worse clinical outcomes.  
Umberto Semenzato (Padova (PD), Italy), Graziella Turato, Matteo Bonato, Mariaenrica Tinè, Davide Biondini, Erica Bazzan, Jose Maria Marin, Marina Saetta, Manuel Cosio |
| PA948 | Airway eosinophilia in severe asthma is associated with smoking history  
Alexander Silberbrandt (Hellerup, Denmark), Anna Von Bülow, Vibeke Backer, Celeste Porsbjerg |
| PA949 | Blood eosinophils do not reliably reflect airway eosinophils in asthmatic children  
Matteo Bonato (Piombino Dese (PD), Italy), Erica Bazzan, Deborah Snijders, Graziella Turato, Chiara Rigobello, Davide Biondini, Mariaenrica Tinè, Manuel G. Cosio, Angelo Barbato, Marina Saetta, Simonetta Baraldo |
| PA950 | Blood vs sputum eosinophils as predictors of exacerbations in a cohort of severe asthmatics  
Bruno Sposato (Grosseto (GR), Italy), Manuela Latorre, Marco Scalese, Matteo Bradicich, Sara Brighindi, M Daniele, R Del Cesta, Federico Dente, Antonella Di Franco, Elena Bacci, Pierluigi Paggiaro |
Periostin expression in the U-BIOPRED severe asthma bronchoscopy cohort
Susan Jane Wilson (Southampton (Hampshire), United Kingdom), Ali Faruqi, Jonathan Ward, Jenny Norman, Ana Sousa, Julie Corfield, Peter Sterk, Fan Chung, Ratko Djukanovic, Barbro Dahlen, Pascal Chanez, Dominick Shaw, Norbert Krug, Thomas Sandstrom, Peter Howarth, Cecile Holweg

Cellular pattern of bronchial inflammation in asthma patients with functional signs of irreversible obstruction
Ekaterina Y. Kochegarova (Blagoveshchensk (Amur Oblast), Russian Federation), Juliy M. Perelman, Victor P. Kolosov, Aleksey B. Pirogov, Natalia L. Perelman, Svetlana V. Naryshkina

The influence of smoking on the formation of cold airway hyperresponsiveness and destructive-cytolytic profile of goblet cells in asthma patients
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B. Pirogov, Anna G. Prikhodko, Victor P. Kolosov, Sergey V. Zinovyev, Artem V. Kolosov, Elena Karapetyan, Xiangdong Zhou, Qi Li

Galecin-3 : marker of airway inflammation in bronchial asthma
Reham Elkolaly (Tanta, Egypt), Dareen Ali

PECULIARITIES OF CYTOKINE DYNAMICS IN PATIENTS WITH BRONCHIAL ASTHMA
Sayyora Bazarova (Tashkent, Uzbekistan), Gulnara Dzhambekova, Elnara Ismailova

Bacterial load and contamination in lung microbiota studies
Christine Drengenes (Bergen, Norway), Harald Wiker, Tharmini Kalananthan, Tomas Eagan, Rune Grønseth

Endotypes of severe allergic asthma patients who clinically benefit from Anti-IgE therapy
Chi-Hsien Huang (Taipei, Taiwan), Yu-Chen Huang, Chih-Ming Weng, Meng-Jung Lee, Chun-Hua Wang, Han-Pin Kuo

Cytokine profiles in the lungs of patients with interstitial and obstructive lung diseases
Peter Korosec (Golnik, Slovenia), Katarina Osolnik, Darja Polak, Mateja Marc Malovrh, Sabina Skrgat

T-cell subsets in bronchoalveolar lavage fluid from adults with a history of Bronchopulmonary Dysplasia (BPD)
Petrá Uİm-Bergrström (Sollentuna, Sweden), Melvin Pourbazargan, Bettina Levänen, Marika Ström, Eva Berggren-Broström, Erik Melén, Åsa Wheelock, Anders Lindén, Magnus Sköld

Relationship between circulating serpina 3g, activity of matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1, 2 with chronic obstructive pulmonary disease severity
Pelin Uysal (Istanbul, Turkey), Hafize Uzun

Sputum cytokine profiling according to the type of airway inflammation in obstructive pulmonary diseases
Małgorzata Proboszcz (Warszawa, Poland), Patrycja Nejman-Gryz, Magdalena Paplińska-Goryca, Katarzyna Górski, Rafał Krenke, Tadeusz Przybyłowski

Human airway trypsin-like protease stimulates differentiation of fibroblasts to myofibroblasts in vitro
Mari Miki (Toyonaka, Japan), Keisuke Miki, Seigo Kitada, Yukiyasu Takeuchi, Rie Tsutsumi, Susumu Yasuoka

Increased endocytosis activity contributes to the enhanced TGFβ-induced fibroblast to myofibroblast transition in bronchial asthma
Marta Michalik (Kraków, Poland), Damian Ryszawy, Dawid Wnuk, Natalia Janik, Elżbieta Karnas, Milena Paw, Hanna Plutecka, Bogdan Jakiela, Zbigniew Madeja

Thematic poster: Identification of therapeutic targets for asthma
Disease(s) : Airway diseases, Respiratory infections, Respiratory infections
Method(s) : Endoscopy and interventional pulmonology, Physiology, Cell and molecular biology
Chairs : Susanne Krauss-Etschmann (Borstel, Germany), Niki L. Reynaert (Maastricht, Netherlands), Robert Bals (Homburg (Saar), Germany), H. Irene Heijink (Groningen, Netherlands)

Human airway trypsin-like protease stimulates differentiation of fibroblasts to myofibroblasts in vitro
Mari Miki (Toyonaka, Japan), Keisuke Miki, Seigo Kitada, Yukiyasu Takeuchi, Rie Tsutsumi, Susumu Yasuoka

Increased endocytosis activity contributes to the enhanced TGFβ-induced fibroblast to myofibroblast transition in bronchial asthma
Marta Michalik (Kraków, Poland), Damian Ryszawy, Dawid Wnuk, Natalia Janik, Elżbieta Karnas, Milena Paw, Hanna Plutecka, Bogdan Jakiela, Zbigniew Madeja
Enhanced efficiency of phenotypic transition of asthmatic fibroblasts depends on canonical and non-canonical TGFβ/Smad signaling pathways
Dawid Wnuk (Kraków, Poland), Karolina Ryczek, Milena Paw, Katarzyna Kmiotek-Wasylewska, Krzysztof Sładek, Grażyna Bochenek, Marta Michalik

Eosinophils contribute to extracellular matrix remodeling by enhancing pulmonary fibroblasts proliferation, differentiation and extracellular matrix proteins production in asthma
Andrius Januskevicius (Kaunas, Lithuania), Ieva Janulaityte, Reinoud Gosens, Virginija Kalinauskaite-Zukauske, Rokas Stonkus, Kestutis Malakauskas

Eosinophil outer membrane integrins and IL-5, IL-3, GM-CSF receptors expression in severe eosinophilic asthma
Virginija Kalinauskaitė-Žukauskė (Kaunas, Lithuania), Ieva Janulaityte, Andrius Januskevicius, Reinoud Gosens, Virginija Kalinauskaite-Zukauske, Rokas Stonkus, Kestutis Malakauskas

Eosinophils promote airway smooth muscle cells contractility and a-actin gene expression in asthma
Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Reinoud Gosens, Virginija Kalinauskaite-Zukauske, Rokas Stonkus, Kestutis Malakauskas

Involvement of epigenetic factor in regulation of steroid resistant bronchial asthma patients
RAVI MISHRA (Lucknow (Uttar Pradesh), India), Ravi Mishra (Ujjain (Madhya Pradesh), India), Harshit Singh, Saurabh Chaturvedi, Mohit Kumar Rai, Vikas Agarwal, Raechna Chaturvedi, Zia Hashim

Corticosteroid-resistant neutrophilic airway inflammation and hyperresponsiveness caused by IL-13
Hans Michael Haitchi (Southampton (Hampshire), United Kingdom), Elizabeth Davies, Joanne Kelly, Jeffrey Whitsett, Donna Davies

Role of protein phosphatase 1 glycogen-associated regulatory subunit in asthma
Blanca Margarita Bazan-Perkins (Mexico, Mexico), Mayra D. Álvarez-Santos, Marisol Alvarez-González, Elizabeth Eslava-De Jesus, Yazmin Pérez-Del Valle, Javier R. Ambrosio, Olivia Reynoso-Ducoing, Patricia Ramos-Ramirez

Aerobic exercise reduces airway inflammation, remodeling and hyperresponsiveness by inhibiting reactive oxygen species and TGF-beta production by activated airway leukocytes: a flow cytometry approach
Manoel Carneiro De Oliveira Jr (São Paulo (SP), Brazil), Alana Santos Dias, Ana Paula Ligeiro De Oliveira, Rodolfo De Paula Vieira

Blocking IL-4Ra with dupilumab prevents lung inflammation in a mouse asthma model
Jamie Orengo (Tarrytown, United States of America), Jeanne Allinne, Audrey Le Floc'h, Terra Potocky, Jee H. Kim, Dylan Birchard, George Scott, Yu Bai, Ashique Rafique, Tammy Huang, Joel Martin, Matthew A. Sleeman, Andrew J. Murphy

MIF antagonism restores corticosteroid sensitivity in a murine model of severe asthma
venkata sita rama raju Allam (Sydney (NSW), Australia), Ian Adcock, Kian Fan Chung, Eric Morand, James Harris, Maria Sukkar

Glucocorticoids induce a shift in chemokine profile in LPS-stimulated human alveolar macrophages
Carina Mardh (Mölndal, Sweden), Nisha Kurian, Tomas Ottosson

Inhaled formulation of angiotensin-(1-7) produces lung protective effects in a model of chronic asthma
Giselle Magalhães (Belo Horizonte, Brazil), Maria De Gloria Rodrigues-Machado, Juliana Gregório, Kezia Gonzaga, Puebla Cassidy, Luciola Barcelos, Robson Santos, Maria José Campagnole-Santos

Bronchial Thermoplasty and its Impact on Mast Cells in the Asthmatic Airway Wall and Smooth Muscle

Effects of anti-IL17 on inflammation, remodeling, and oxidative stress in an experimental model of asthma exacerbated by LPS
Edna Leick (Praia Grande, Brazil), Leandro Camargo, Renato F. Righetti, Luciana R. C. R. B. AristóTeles, Tabata M. Santos, FláVia C. R. Souza, Silvia Fukuzaaki, Maysa M. Cruz, Maria Isabel C. Alonso-Vale, Beatriz M. Saraiva-Romanhelo, Carla M. Prado, Milton A. Martins, Iolanda F. L. C. Tibério

The lung microbiota changes associated with inhaled corticosteroid and azithromycin in murine model of COPD
Yen-Fu Chen (Douliou, Taiwan), Hsin-Han Hou, Shih-Lung Cheng, Hao-Chien Wang, Chong-Jen Yu
Thematic poster: Pulmonary fibrosis: from models to patients

**Disease(s):** Respiratory critical care, Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases

**Method(s):** Physiology, Cell and molecular biology

**Chairs:** Manuela Platé (London, United Kingdom), Arnaud Mailleux (Paris, France), Olivier Burgy (Aurora, United States of America), Melanie Koninghoff (Denver, United States of America)

**PA985**
LSC - 2018 - Distinct metabolic alterations in airway macrophages during pulmonary fibrosis
Patricia Ogger (London, United Kingdom), Toby Maher (t.maher@rbht.nhs.uk / Royal Brompton Hospital, London), Clare Lloyd (c.lloyd@imperial.ac.uk / Imperial College London, London), Adam Byrne (a.byrne@imperial.ac.uk / Imperial College London, London)

**PA986**
LSC - 2018 - MTOR regulates TGFß-induced collagen synthesis via increased glycine biosynthesis
Ilan Azuelos (Montréal (QC), Canada), Brintha Selvarajah (brintha.hayes@ucl.ac.uk / UCL, London), Manuela Plate (m.plate@ucl.ac.uk / UCL, London), Hannah Woodcock (h.woodcock@ucl.ac.uk / UCL, London), Adam Taylor (adam.2.taylor@gsk.com / GSK, London), Gino Brunori (Gino.2.Brunori@gsk.com / GSK, Ware), Andy Blanchard (andy.d.blanchard@gsk.com / GSK, Stevenage), Paul Mercer (paul.mercer@ucl.ac.uk / UCL, London), Rachel Chambers (r.chambers@ucl.ac.uk / UCL, London)

**PA987**
LSC - 2018 - Material properties of lung scaffolds derived from healthy and IPF donor tissues are associated with disease pathology
Anna-Karin Larsson-Callerfelt (Lund, Sweden), Linda Elewsson, Anna Lofdahl (anna.lofdahl@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Oskar Rosmark (oskar.rosmark@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Catharina Muller (catharina.muller@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Anna-Karin Larsson Callerfelt (anna.karin.larsson_callerfelt@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund), Johan Malmstrom (johan.malmstrom@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University, Lund), Emma Ahrman (emma.ahrman@med.lu.se / Division of Infection Medicine, Clinical Sciences, Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology, Experimental Medical Science, Lund University, Lund)

**PA988**
Transcriptomic profiling of alveolar type 2 cells from mice expressing an ILD associated SFTPC173T mutation supports their role in inflammatory cell recruitment and fibrotic lung remodeling.
Michael Beers (Wayne, United States of America), Jeremy Katzen, Alessandro Venosa, Yaniv Tomer, Michael Morley, Shin-Ichi Nureki

**PA989**
The hypoxia-inducible factor 1a protein stabilizers inhibit transforming growth factor ß-induced extracellular matrix proteins in epithelial cells and fibroblasts.
Akira Ando (Nagoya-city, Japan), Naozumi Hashimoto, Koji Sakamoto, Yoshinori Hasegawa

**PA990**
Effective LncRNAs on myofibroblast differentiation in human A549 cell line treated with TGF-ß
Merve Yıldırım (Istanbul, Turkey), Ozgecan Kayalar, Fusun Oztay

**PA991**
Anti-fibrotic effect of Atorvastatin on the lung fibroblasts and myofibroblasts
Ersan Atahan (Istanbul, Turkey), Merve Yıldırım, Ozgecan Kayalar, Fusun Oztay

**PA992**
Effect of NAPDH oxidase inhibitors on lung fibroblast proliferation in systemic sclerosis
Thõng Hua-Huy (Paris, France), Carole Nico, Jean-Luc Boucher, Hai Vu-Ngoc, Estelle Tran-Van-Hoi, Frederic Batteux, Anny Slama-Schwok, Anh Tuan Dinh-Xuan

**PA993**
Development of improved method to identify and analyze lung fibrocytes with flow cytometry in a reporter mouse strain
Hiroshi Kawano (Tokushima, Japan), Kazuya Koyama, Haruka Nishimura, Yuko Toyoda, Kozo Kagawa, Seidai Sato, Nobuhito Naito, Hisatsugu Goto, Yutaka Inagaki, Yasuhiko Nishioaka

**PA994**
Unravelling specific mechanisms of wound healing and pulmonary fibrosis in human ex vivo lung tissue slices
Christina Hesse (HANNOVER, Germany), Samuel Mang, Stefan-Lutz Wollin, Monika Niehof, Peter Braubach, Danny Jonigk, Mark Kühnel, Gregor Warnecke, Olaf Pfeiffer, Hans-Gerd Fieguth, Armin Braun, Katherine Sewald

**PA995**
Mast cells and tryptase have migratory effect on human lung fibroblasts that is PAR-2 dependent
Marian Bagher (Malmö, Sweden), Anna-Karin Larsson-Callerfelt, Oskar Hallgren, Leif Bjørmer, Gunilla Westergren-Thorsson

**PA996**
Erythropoietin (EPO) attenuates the immunohistochemical expression of tumor growth factor-ß (TGF-ß) in bleomycin (BLM)-induced pulmonary fibrosis (PF) in rats
Anna Tzoumakia (Thessaloniki, Greece), Drosos Tsolvis, Doxakis Anestakis, Constantina Symeonidou, Kokona Kouzi - Koliakou, Anastasia Tektonidou, Evangelia Spandou
### PA997
**Eosinophilic inflammation and worsening of lung function upon pirfenidone treatment in Fra-2 transgenic mice**
Anna Gungl (Graz, Austria), Valentina Biasin, Crnkovic Slaven, Leigh M Marsh, Grazyna Kwapiszewska, Horst Olschewski

### PA998
**A novel chronic murine model of idiopathic pulmonary fibrosis**
Karina Smidt Simon (Brasilia (DF), Brazil), Cesar Melo-Silva, Paulo Veloso-Junior, Verônica Amado, Florência Figueiredo, Anamélia Bocca

### PA999
**Analysis of the lung microbiota in healthy dogs and in canine idiopathic pulmonary fibrosis, a possible spontaneous model for human IPF.**
Aline Fastrès (Liège, Belgium), Elodie Roels, Bernard Taminioua, Minna Rajamäki, Georges Daube, Julien Guiot, Cécile Clercx

### PA1000
**Protective roles of mannose receptor in an experimental pulmonary fibrosis model**
Masahiro Yamashita (Morioka (Iwate Prefecture), Japan), Miyuki Niisato, Yasushi Kawasaki, Makoto Maemondo

### PA1001
**Time-course analysis of bleomycin-induced lung fibrosis in the rat**
Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Martina Bonatti, Fabio Bignami, Maria Gloria Pittelli, Silvia Pontis, Caterina Frati, Chiara Mangiaracina, Frederico Quaini, Costanza Lagrasta, Maurizio Civelli, Gino Villetti, Marcello Trevisani

### PA1002
**Role of regulatory T-cells (Tregs) in bacterial infection-induced lung fibrosis exacerbation in mice**
Steffi Moyé (Hannover, Germany), Regina Maus, Tim Sparwasser, Jack Gauldie, Martin Kolb, Tobias Welte, Ulrich A. Maus

### PA1003
**The possible role of gastrin-releasing peptide on pulmonary fibrosis**
Özgecan Kayalar (Istanbul, Turkey), H Gul Ongen, Fusun Oztoy

### Session 111
**Thematic poster: Pulmonary drug delivery: inhaler use, devices and technologies**

#### Disease(s)
- Airway diseases

#### Method(s)
- Public health
- Epidemiology
- Imaging
- General respiratory patient care

#### Chairs
- Omar S. Usmani (London, United Kingdom)
- Nicolas Roche (Paris, France)
- Frederik Trinkmann (Mannheim, Germany)
- Angelica Tiotiu (Nancy, France)

- **Evaluation of inhalation technique in patients using Dry Powder Inhaler (DPI), and the effect of patient education on their techniques- an experience from Nepal**
  Sudeep Shrestha (Dhulikhel, Nepal), Sandhya Shrestha, Maun Ranjan Baral, Sambhawana Bhandari, Swati Chand, Prashidhha Dhakal, Rajendra Tamrakar, Ram Kumar Mehta, Nirish Vaidhya, Satyaa Shrestha, Bijay Krishna Prajapati, Rajesh Pandey, Ashish Shrestha, Hari Kumar Shrestha

- **Standardising inhaler technique videos in a clinician and patient app**
  Azhar Saleem (London, United Kingdom), Darush Attar-Zadeh, Jas Khambh, Tim Root, Ben Rehman, Vince Mak, Omar Usmani

- **Asthma control and COPD symptom burden: results from a multi-country observational study (SPRINT) in patients using fixed dose combination (FDC) inhalers**
  Nicolas Roche (Paris, France), Vicente Plaza, Vibeke Backer, Job Van Der Palen, Isa Cerveri, Chelo Gonzalez, Guilherme Safioti, Irma Scheepstra, Olivier Patino, Dave Singh

- **What influences the response to training of inhalation technique in patients with asthma and COPD?**
  Izabela Domagała (Zielona Góra, Poland), Marta Dąbrowska, Marta Moszczek, Katarzyna Łuczak, Marta Maskey-Warzęchowska, Rafal Krenke

- **A novel approach of using pharmaceutical pictogram for improving asthma inhaler techniques**
  Basima Almomani (Iribid, Jordan), Enas Mokhemer

- **Inhaler preferences and satisfaction of asthma and COPD patients**
  Janwillem W. H. Kocks (Groningen, Netherlands), Lise van Dijk, Jos Luers, Halima El Messlaki, Xana Van Jaarsveld, Esther Metting

- **Differences in inhaler misuse between patients with asthma and COPD.**
  Marta Miszczuk (Warszawa, Poland), Marta Dąbrowska, Izabela Domagała, Katarzyna Łuczak, Marta Maskey-Warzęchowska, Rafal Krenke

- **Switch to Budesonide/Formoterol Easyhaler Inhalation from other inhalers in asthma patients; A real-life study**
  Gabriella Gálffy (Budapest, Hungary), Mária Szilasi
PA1012 Importance of inhaler device use status in the control of asthma and COPD: a real life study.
Alice Bragantini (Genova (GE), Italy), Teresita Aloè, Tommaso Bondavalli, Diego Bagnasco, Giovanni Passalacqua

PA1013 Pharmacokinetics (PK) and safety of budesonide/glycopyrronium/formoterol fumarate dihydrate (BGF) and glycopyrronium/formoterol fumarate dihydrate (GFF) metered dose inhaler (MDI) in healthy Chinese adults
Hanna Yu (Shanghai, China), Hanna Yu, Yun Liu, Kevin Shen, Pryseley N. Assam, Michael Gillen, Paul Dorinsky

PA1014 Efficacy and safety of glycopyrronium/formoterol fumarate dihydrate metered dose inhaler (GFF MDI) delivered using co-suspension delivery technology in Japanese patients with moderate-to-very severe COPD
Yasuhiro Gon (Tokyo, Japan), Koichi Nishi, Kazuhiro Sato, Andrea Maes, Shahid Siddiqui, Nobuya Hayashi, Hajime Hirata, Colin Reisner, Ubaldo J. Martin

PA1015 Lung deposition of extrafine inhaled corticosteroid (ICS)-containing fixed combinations drug in COPD patients using Functional Respiratory Imaging (FRI).
Ilaria Valente (Parma, Italy), Ömer Usmani, Wil Vos, Benjamin Mignot, George Georges, Mario Scuiri, Roberta De Maria, Nicola Scichilone

PA1016 Hyaluronic acid improves tolerability to 7% hypertonic saline solution in bronchiectasis patients
Luis Maiz Carro (Madrid, Spain), Rosa M. Giron, Eva Prats, Marta G. Clemente, Eva Polverino, Silvia Caño, Rosa Cordovilla, Jordi Dorca, Carlos PeñAlver, FéLix Baranda, Miguel A. Martínez-García

PA1017 Efficacy of the device in targeting tiotropium to the small airways in COPD
Martyn Biddiscombe (London, United Kingdom), Azhar Saleem, Sally Meah, Vincent Mak, Omar Usmani, Amanda Pellowe (Amanda.pellowe@yale.edu / Yale University, New Haven), Jia Li (jia.li2875@yale.edu / Shanghai Jiao Tong University, Shanghai), Xueyan Peng (xueyan.peng@yale.edu / Yale University, New Haven), Angelica Gonzalez (Angelica.gonzalez@yale.edu / Yale University, New Haven), Erica Herzog (ERICA.HERZOG@YALE.EDU / Yale University, New Haven)

PA1018 Consistency of aerosol characteristics at low flow rates for a novel mesh nebulizer
John Pritchard, Lois Slator, Dirk Von Hollen

PA1019 Reusable soft mist inhaler: maintaining aerosol performance
Herbert Wachtel (Engelheim, Germany), Michaela Hänsel, Joachim Eicher

PA1020 DuoResp Spiromax adherence, satisfaction and ease of use: findings from a multi-country observational study in patients with asthma and COPD (SPRINT)
Job van der Palen (Enschede, Netherlands), Isa Cerveri, Nicolas Roche, Dave Singh, Vicente Plaza, Chelo Gonzalez, Oliver Patino, Irma Sceepstra, Guilherme Safioti, Vibeke Backer

PA1021 Reduced environmental impact of a reusable soft mist inhaler
Michaela Hänsel (Nieder-Olmi, Germany), Thomas Bambach, Herbert Wachtel

PA1022 Comparing Lung Geometrical Areas of interest in Gamma Scintigraphy as Assessment Tool for Inhaled Drug Deposition
Abdullah Ghazwani (Dhahran, Saudi Arabia), Martyn Biddiscombe, Omar Usmani

PA1023 Revealing the regional localization and lung retention of inhaled drugs
Erica Bäckström (Mölndal, Sweden), Gregory Hamm, Mikael Brülls, Richard Goodwin, Markus Fridén
Efficacy and safety of extrafine glycopyrronium bromide (GB) in uncontrolled asthmatic patients
George Georges (Cary, United States of America), Pierluigi Paggiaro, Mario Scuri, Ilaria Valente, Alessandro Guasconi, Sandrine Corre, Alberto Papi

Management of severe allergic asthma in the UK: Which monoclonal antibody would you choose?
Tanveer Khalid (Tameside (Greater Manchester), United Kingdom), Ben Clarke, Peter Vivian, Jonathan Walker, Dinesh Saralaya

Real-world effectiveness of omalizumab in allergic asthma patients with low or high blood eosinophils: A retrospective claims analysis study
Nicola Hanania (Houston, United States of America), Juanzhi Fang, Zhongyuan Wei, Benjamin Ortiz, Abhishek Kavati, Xavier Jaumont, Luisa Alvares, Hui Cao

Steroid inhaler dose reduction in comparison with montelukast discontinuation in asthma patients controlled by steroid inhaler and montelukast
Shahideh Amini (Tehran, Islamic Republic of Iran), Hamidreza Abtahi, Beshrat Rahimi

Intravenous (IV) reslizumab efficacy does not differ by blood eosinophil lowering to levels above or below 50 cells/µL
Yochai Adir (Haifa, Israel), Mario Castro, Pascal Chanez, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Immunogenicity assessment of intravenous administration of reslizumab in patients with asthma in phase 3 clinical studies
Margaret Garin (Media, United States of America), Linglong Zou, Laurie Pukac, Yael Shalit, Lisa Hickey, Patrick Liu

Tiotropium provides greater improvements in FEV1 than leukotriene receptor antagonists as add-on to ICS in adults with asthma: a systematic review
Alan Kaplan (Stouffville (ON), Canada), J. Mark Fitzgerald, Georges El Azzi, Michael Engel, Roland Buhl

No clinically relevant hypersensitivity reactions in clinical trials with tralokinumab in asthma
Mats Carlsson (Göteborg, Sweden), Martin Braddock, Yuling Li, Jihong Wang, Weichen Xu, Gene Colice

Adherence to inhaled steroids treatment using smart nebulisers in severe asthmatics
Bernhard Müllinger (Gauting, Germany), Gary Burgess, Anna Ribera, Sue Snape

Characteristics of patients receiving mepolizumab in real-world practice –REALITI-A study
Namhee Kwon (Brentford (Middlesex), United Kingdom), Kim Gemzoe, Sally Worsley, Necdet Gunsoy, Sandra Joksaite, Melissa Van Dyke, Carys Bettinson, Frank Albers

Long-term results of anti-IgE-therapy in severe uncontrolled child asthma.
Svetlana Diakova (Moscow, Russian Federation), Yuri Mizrantskyy, Ludmila Sokolova, Elena Sorokina, Irina Zorina

Which are the factors and causes that lead to omalizumab withdrawal in severe asthma patients?
Ester Zamarron De Lucas (Madrid, Spain), David Romero Ribate, Juan Fernandez-Lahera Martin, Carlos Villasante Fernández-Montes, Santiago Quirce Gancedo, Pilar Barranco Sanz, Javier Dominguez Ortega, Rodolfo Alvarez-Sala Walther

Reliever effect of extrafine BDP/F DPI in asthmatic patients after methacholine challenge
Massimo Corradi (Parma (PR), Italy), Dave Singh, Frans Van Den Berg, Brian Leaker, Sunny Jabbal, Sara Collarini, Valentina Mongelli, Luigi Santoro, Annalisa Piccinno, Sonia Biondaro, Brian Lipworth

Analysis of cytogenetic alterations in asthmatic patients treated with beclometasone dipropionate
Andrey Lintsov (St.Petersburg, Russian Federation), Boris Uslontsev, Nadezhda Pleskach, Viktor Mikhailson

Inhaled corticosteroids and asthma control in adult-onset asthma: 12-year follow-up study
Iida Viitala (Tampere, Finland), Pinja Ilmarinen, Leena E Tuomisto, Onni Niemelä, Hannu Kankaanranta

Intermittent tiotropium in early childhood wheezing? Preliminary safety results of a pilot study
Anne Kotaniemi-Syrjänen (Vantaa, Finland), Timo Klemola, Eija Röös, Kristiina Malmström, Pekka Malmberg, Anna Pelkonen, Mika Mäkelä

Consistent efficacy across endpoints with reslizumab despite short term variability in blood eosinophil levels
Mario Castro (St. Louis, United States of America), Yochai Adir, Pascal Chanez, Mirna Mcdonald, Lisa Hickey, Margaret Garin

Thematic poster: Basic pharmacology
Disease(s): Airway diseases, Respiratory infections, Interstitial lung diseases, Respiratory critical care, Respiratory infections
Method(s): General respiratory patient care, Physiology, Cell and molecular biology
<table>
<thead>
<tr>
<th>Panel</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1044</td>
<td>Antigen challenge results in specific activation of pathways for arachidonic acid oxygenation</td>
<td>Jesper Säfholm (Solna, Sweden), David Balgoma, Alexander Fauland, Christina Gomez, Johan Kolmert, Mikael Adner, Craig Wheelock, Sven-Erik Dahlen</td>
</tr>
<tr>
<td>PA1045</td>
<td>Effect of a small natural dietary compound on lung pathology in airway inflammation</td>
<td>Amlan Chakraborty (Clayton, Australia), Jennifer Boer, Simon Royce, Kirsty Wilson, Cordelia Selomulya, Magdalena Plebanski</td>
</tr>
<tr>
<td>PA1046</td>
<td>Metformin and pioglitazone inhibited vagus nerve mediated airway hyperreactivity in diet-induced obese rats</td>
<td>Zhenying Nie (Portland, United States of America), Becky Proskocil, David Jacoby, Allison Fryer</td>
</tr>
<tr>
<td>PA1047</td>
<td>The Discovery and Development of AZD1402/PRS-060, an Inhaled, Potent and Selective Antagonist of the IL-4 Receptor Alpha</td>
<td>Gabriele Matschiner (München, Germany), Song Huang, Samuel Constant, Barbara Rättenstetter, Hendrik Gille, Andreas M Hohlbaum, Beverly Koller, David Keeling, Mary Fitzgerald</td>
</tr>
<tr>
<td>PA1048</td>
<td>Steroid-resistant inflammation in a mouse model of severe asthma is not inhibited by the combination of theophylline and budesonide</td>
<td>Vince Russell (Verona (VR), Italy), Mariapia Brana, Daniela Pompilio, Giulia Ambrosi, Filippo Andreotta, Elisa Venturini, Anna Chalidou, M Elena Manni</td>
</tr>
<tr>
<td>PA1049</td>
<td>Effect of inhaled surfactant enriched with phosphatidylethanolamine on matrix deposition in a murine model of airway inflammation and remodeling.</td>
<td>Luis G. Vázquez de Lara (Puebla (Pue.), Mexico), Ismene García-Alcudia, Itzel García-Mendoza, Yamilet Díaz Gómez, Beatriz Tlatelpa-Romero, Nora Fernández-Tamayo, Mario García-Carrasco, Fernando Vazquez De Lara</td>
</tr>
<tr>
<td>PA1050</td>
<td>Mucus rheology and ciliary beating coordination</td>
<td>Myriam Jory (Montpellier, France), Christophe Blanc, Aurélie Fort, Laura Casanellas, Isabelle Vachier, Arnaud Bourdin, Gladys Massiera</td>
</tr>
<tr>
<td>PA1051</td>
<td>Small airway reactivity is not altered in precision-cut lung slices from a bleomycin mouse model of airway fibrosis</td>
<td>Maggie Lam (Melbourne, Australia), Vivian Mao, Chrishan Samuel, Jane Bourke, Simon Royce</td>
</tr>
<tr>
<td>PA1052</td>
<td>Nonclinical safety profiles of DS-1515, a novel oral PI3Kd inhibitor.</td>
<td>Kiyoshi Morimoto (Tokyo, Japan), Koichi Yabe, Masakatsu Suzuki, Kazuhiko Mori</td>
</tr>
<tr>
<td>PA1053</td>
<td>ADME properties of a novel PI3Kd inhibitor, DS-1515, in preclinical studies</td>
<td>Kiyoshi Morimoto (Tokyo, Japan), Yumi Nishiyama, Tomoyo Honda, Kenichi Itokawa, Osamu Ando, Masakatsu Suzuki</td>
</tr>
<tr>
<td>PA1054</td>
<td>Pharmacological properties of a novel PI3Kd inhibitor, DS-1515</td>
<td>Masakatsu Suzuki (Tokyo, Japan), Kenichi Wakita, Kumiko Koyama, Shintaro Nakayama, Yumi Nishiyama, Puneet Chopra, Mahesa Seth, Pooja Chabbra, Punit Srivastava, Ankur Kumar, Manish Diwan, Kiyoshi Morimoto</td>
</tr>
<tr>
<td>PA1055</td>
<td>Cytotoxicity of liposome-encapsulated polyinosinic-polycytidylic acid in primary human macrophages is only partially related to interferon-β</td>
<td>Nurlan Dauletbaev (Montréal (QC), Canada), Aparna Dintakurti, Yoojin Choi, Maria Cammissano, Warren Viricel, Jeanne Leblond, Larry Land</td>
</tr>
<tr>
<td>PA1056</td>
<td>Cyclic AMP compartments drive airway epithelial-to-mesenchymal transition (EMT)</td>
<td>Martina Schmidt (Groningen, Netherlands), Haoxiao Zuo, Repair &amp; Development Section, National Heart &amp; Lung Institute, Imperial College London, London, UK, London, Lisa G. Gregory (<a href="mailto:l.gregory@imperial.ac.uk">l.gregory@imperial.ac.uk</a>) / Inflammation, Repair &amp; Development Section, National Heart &amp; Lung Institute, Imperial College London, London, UK, London, , Juho Vuononvirta (<a href="mailto:j.vuononvirta@imperial.ac.uk">j.vuononvirta@imperial.ac.uk</a>) / Inflammation, Repair &amp; Development Section, National Heart &amp; Lung Institute, Imperial College London, London, UK, London, Robert Oliver (<a href="mailto:r.oliver@imperial.ac.uk">r.oliver@imperial.ac.uk</a>) / Inflammation, Repair &amp; Development Section, National Heart &amp; Lung Institute, Imperial College London, London, UK, London, , James E. Pease (<a href="mailto:j.pease@imperial.ac.uk">j.pease@imperial.ac.uk</a>) / Inflammation, Repair &amp; Development Section, National Heart &amp; Lung Institute, Imperial College London, London, UK, London, , Matthew F. Krummel (<a href="mailto:matthew.krummel@uchicago.edu">matthew.krummel@uchicago.edu</a>) / Department of Pathology, University of California, San Francisco, Parnassus Ave, San Francisco, California, USA, San Francisco, San Francisco, CA, USA, San Francisco, , Leo M. Carlin (<a href="mailto:l.carlin@imperial.ac.uk">l.carlin@imperial.ac.uk</a>) / Cancer Research UK, Beatson Institute, Garscube Estate, Bearsden, Glasgow, UK, Glasgow, Clare M. Lloyd (<a href="mailto:c.lloyd@imperial.ac.uk">c.lloyd@imperial.ac.uk</a>) / Inflammation, Repair &amp; Development Section, National Heart &amp; Lung Institute, Imperial College London, London, UK, London,</td>
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<tr>
<td>PA1057</td>
<td>Photobiomodulation and corticosteroid modulate pulmonary inflammation and airway reactivity in an experimental model of chronic asthma</td>
<td>Aurélié Aparecida De Brito Léia (Vargem Grande Paulista, Brazil), Tawany Gonçalves Santos, Karine Zanella Herculano, Cintia Estefano Alves, Nicole Cristina Rigonato Oliveira, Stephanie Souza Soares, Maysa Alves Rodrigues, Flávio Aimbire, Rodolfo De Paula Vieira, Adriana Lino-Dos-Santos Franca, Ana Paula Ligeiro Oliveira</td>
</tr>
</tbody>
</table>
A fluid secretion assay using nasal organoids
Gimano Amatgalm (Utrecht, Netherlands), Lisa Rodenburg, Jesse Brunsveld, Evelien Kruisselbrink, Kors Van Der Ent, Jeffrey Beekman

Low concentration of phenol in medical solutions can induce bronchoconstriction and toxicity in murine, rat and human lungs.
Christian Martin (Aachen, Germany), Galina Balakirski, Julia Krabbe, Thomas Schettgen, Annette Rieg, Thomas Schröder, Jan Spillner, Sebastian Kalverkamp, Till Braunschweig, Svetlana Kintsler, Ingo Krüger, Elisabeth Breuer

Development of a new calcilytic for the treatment of inflammatory lung disease
Daniela Riccardi (Cardiff, United Kingdom), Polina Yarova, Martin Schepelmann, Salvatore Ferla, Ping Huang, Vsevolod Telezhkin, Emma Kidd, William Ford, Kenneth Broadley, Jeremy Ward, Christopher Corrigan, Paul Kemp, Andrea Brancal

The acute effect of inhaled salbutamol and ipratropium on microvascular function
Kashyap Chauhan (London, United Kingdom), Hussein Al-Rubaye, Monia Yasmine Arzim, Valentina Abi Osman, Emma H Baker, Henry Fok, Sachelle Ruickbie, Daniel Burrag

Synergistic interaction between beclomethasone dipropionate and formoterol fumarate in an ex vivo model of bronchial asthma
Luigino Calzetta (Roma (RM), Italy), Maria Gabriella Matera, Josuel Ora, Francesco Facciolo, Mario Cazzola, Paola Rogliani

Blood eosinophil as a biomarker in COPD
Joo Hun Park (Suwon, Republic of Korea), Yoonki Hong, Woo Jin Kim, Soo-Jung Um, Jin Hee Jung, Song Vogue Ahn, Yeon-Mok Oh, Jae Seung Lee, Sang-Do Lee

Eosinophil count on admission is not a good biomarker in severe exacerbations of COPD to predict later readmission: a long term observational study from the AECOPD-Barcelona Cohort
Arturo Humberto Huerta Garcia (Barcelona, Spain), Pedro J Marcos, Adrian Ceccato, Laia Pinyol, Monica Guerrero, Olivia Vilaro, Albert Gabarrus, Carolina Sanchez, Elisenda Gomez-Angelats, Nestor Soler, Antoni Torres

Characteristics of COPD patients treated with inhaled corticosteroid in primary care
Osman Savran (Hvidovre, Denmark), Nina Skavlans Godfredsen, Torben Sørensen, Christian Jensen, Charlotte Suppli Ullrik

Exhaled NO (FeNO) levels in patients with exacerbation of COPD and/or bronchiectasis
Foteini Malli (Larisa, Greece), Ourania Kotsiou, Antonia Gouvani, Spyros Ladis, Konstantinos I Gourgoulis, Zoe Daniil

Residual reversibility in COPD subjects treated by long acting bronchodilatators
Marjorie Picaud (Lille, France), Olivier Le Rouziec, Hélène Salvador, Hélène Neveu, Philippe Devillier, Louis-Jean Couderc, Thierry Perez

Exhaled NO (FeNO) levels in patients with exacerbation of COPD and/or bronchiectasis
Foteini Malli (Larisa, Greece), Ourania Kotsiou, Antonia Gouvani, Spyros Ladis, Konstantinos I Gourgoulis, Zoe Daniil

Assessment of health status using CAT scores in COPD patients from Italy: the MISTRAL study
Paolo Morini (Imola (BO), Italy), Maria Luisa Agneni, Pasquale Patriciello, Antonio Triani, Piero Balbo, Rosa Metella Refini, Marta Barzeghi, Alberto Porpiglia

Neutrophil to lymphocyte ratio and platelet to lymphocyte ratio in patients with acute exacerbation of chronic obstructive pulmonary disease
Abir Hedhli (Tunis, Tunisia), Azza Slim, Sana Cheikh Rouhou, Safa Ben Khaled, Amir Taboubi, Yassine Ouahchi, Jouda Cherif, Sonia Toujani, Meriem Mjid, Samira Merai

Exhaled nitric oxide as a biomarker in different COPD phenotypes
Ivona Markevič (Zagreb, Croatia), Miroslav Samaržija, Sanja Popović-Grele, Blanka Čuk, Ana Hećimović, Mateja Janković-Makek, Andrea Vukić Dugac
PA1074 Periostin levels in chronic obstructive pulmonary disease (COPD)
Saya Nakamura (Nagoya, Japan), Keiko Wakahara, Suguru Majima, Tomoko Nisio, Yoshihiro Suzuki, Akira Shiraki, Takashi Abe, Joe Shindoh, Toyokazu Sashio, Junya Ono, Kenji Izuhara, Yosinori Hasegawa

PA1075 Repeatability of multiple washout measurements in stable Chronic Obstructive Pulmonary Disease.
Enya Daynes (Coventry (West Midlands), United Kingdom), Marcia Soares, Neil Greening, John Owens-Bradley, Sally Singh, Salman Siddiqui

PA1076 Could eosinophil / neutrophil ratio be used to determine treatment in COPD patients?
Halil Ibrahim Yakar (Istanbul, Turkey), Asiyeh Kanbay, Erkan Ceylan

PA1077 Eosinophils and different clusters in COPD patients.
Suzana Erico Tanni (Botucatu (SP), Brazil), Jose William Zucchi, Bruna Evelyn Bueno De Morais, Thais Garcia, Luiz Henrique Soares Machado, Ana Natalia Ribeiro Batista, Estefania Aparecida Thome Franco, Irma Godoy

PA1078 Clinical correlates of alveolar nitric oxide in COPD
Alexandra Thornadtsson (Gävle, Sweden), Andrei Malinovschi, Kristina BröMs, Karin Lisspers, BjöRn Stålberg, Christer Janson, Marieann HöGman

PA1079 Glycated hemoglobin (HbA1c) and acute exacerbation in chronic obstructive pulmonary disease: a potent biomarker of severity and prognosis. Preliminary data.
Evgenia Papathanassiou (ATHENS, Greece), Andriana Papaioannou, Georgios Hillas, Eleftheria Mizi, Petros Bakakos, Vasiliki Apollonatou, Galateia Verykoukou, Nikos Roussakis, Zoi Tsiliogianni, Konstantinos Kostikas, Spyros Papiris, Stylianos Loukides

PA1080 Characterisation of UK and US COPD populations in reference to exacerbation frequency and blood eosinophils level
Claus Vogelmeier (Marburg, Germany), Konstantinos Kostikas, Juanzhi Fang, Bethan Jones, Christopher Morgan, Robert Fogel, Florian Gutzwiller, Hui Cao

PA1081 Overnight changes in expired carbon monoxide levels in obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Martina Meszaros, Adrian Kis, Adam Tarnoki, David Tarnoki, Peter Horvath, Zsofia Lazar, Laszlo Kunos

PA1082 The influence of different degrees of body mass index on respiratory system impedance
Ada Clarice Gastaldi (Ribeirao Preto (SP), Brazil), Mayara Holtz De Paula, Larissa Perossi, Daniele Santos, Alessandra Lago, José António Baddini-Martinez

TP-23
Thematic poster: Biomarkers for evaluating asthma
Disease(s): Airway diseases
Method(s): Endoscopy and interventional pulmonology, Epidemiology, General respiratory patient care
Chairs: Florence Schleich (Liège, Belgium), Marco Idzko (Vienna, Austria), Konstantinos Kostikas (Basel, Switzerland), Borja García Cosio Piqueras (Palma de Mallorca, Spain)

PA1083 Blood eosinophils fluctuation in asthmatics on Omalizumab—a mirror of disease outcomes improvement?
Lília Maia Santos (Coimbra, Portugal), Bárbara Ramos, Cláudia Chaves Loureiro

PA1084 Comorbidities and uncontrolled asthma in a ‘real life’ population study
Miguel Santibanez (Santander (Cantabria), Spain), José Ramón Fernández-Fonfría, Juan Carlos López-Caro, Francisca Gómez-Molleda, Borja Del Riover Sierra, Ana Viejo, Jaime Ruiz-Pérez, Esperanza Rueda, Mariano Rodríguez, Cruz Martinez-Pérez, Roberto Garrastazu, Sandra Ortiz, Jose Hernandez-Urculo, Margarita Hierro, Juan Luis Garcia-Rivero

PA1085 Clinical characteristics of the Wessex AsThma CoHort of difficult asthma (WATCH)
Heena Mistry (Southampton (Hampshire), United Kingdom), Adnan Azim, Matt A E Harvey, Yvette Thirlwall, Clair Barber, Hans Michael Haitchi, Colin Newell, Ratko Dujkanovic, Peter H Howarth, Ramesh J Kurukulaaratchy

PA1086 Does the nature of adult difficult asthma differ by age of onset? Findings from WATCH.
Heena Mistry (Southampton (Hampshire), United Kingdom), Anna Freeman, Yvette Thirlwall, Matt A E Harvey, Clair Barber, Hans Michael Haitchi, Colin Newell, Yueqing Cheng, Judit Varkonyi-Sepp, Ramesh J Kurukulaaratchy

PA1087 Comorbidities in the difficult asthma clinic: results from WATCH
Adnan Azim (Bournemouth (Dorset), United Kingdom), Heena Mistry, Matt A Harvey, Yvette Thirlwall, Paddy Dennison, Anna Freeman, Colin Newell, Hans Michael Haitchi, Peter H Howarth, Ramesh Kurukulaaratchy

PA1088 Does early-onset difficult asthma in adulthood differ by sex? Findings from WATCH.
Heena Mistry (Southampton (Hampshire), United Kingdom), Adnan Azim, Yvette Thirlwall, Frances Mitchell, Clair Barber, Hans Michael Haitchi, Colin Newell, Paddy Dennison, Yueqing Cheng, Ramesh J Kurukulaaratchy
PA1089  Does atopy matter in difficult asthma? Results from WATCH
Adnan Azim (Bournemouth (Dorset), United Kingdom), Heena Mistry, Matt Ae Harvey, Yvette Thirlwall, Judit Varkonyi-Sepp, Hans Michael Haitchi, Colin Newell, Peter H Howarth, Ramesh J Kurukulaaratchy

PA1090  Inflammatory biomarkers in the evaluation of two-year outcomes of omalizumab treatment in severe allergic asthma.
Joanna Hermanowicz-Salamon (Warszawa, Poland), Patrycja Nejman-Gryz, Renata Rubinsztajn

PA1091  Does Exhaled Nitric Oxide Correlate with Established Measures of Asthma Severity?
Nemr Eid (Louisville, United States of America), Michael Bricken, Scott Bickel

PA1092  Real life study showing the epidemiological profile and adherence to treatment of patients with severe allergic asthma in use of omalizumab in the past year.
Alcindo Cerri Neto (Londrina (PR), Brazil), Olavo Franco Ferreira Filho, Fatima Mitsie Chibana, Marcos Ribeiro, Renato Kauffmann, Lissa Sugetahara, Pamela Passarelli, Fabiane Bijetti

PA1093  Effectiveness of pulmonary rehabilitation programs on persistent asthma.
Dina Visca (Mantova (MN), Italy), Elisabetta Zampogna, Enrico Heffler, Francesca Puggioni, Patrizia Pignatti, Francesca Racca, Giovanni Sotgiu, Stefano Negri, Giorgio Walter Canonica, Antonio Spanevello

PA1094  Role of blood neutrophilia as a biomarker in asthma
Fabio L. M. Ricciardolo (Orbassano (TO), Italy), Anna Folino, Vitina Carrierro, Michela Bullone

PA1095  Total IgE and Der p 1 (D1) specific IgE in induced sputum (IS) in patients with allergic and non-allergic asthma
Elena Curto Sánchez (Barcelona, Spain), Astrid Crespo Lessmann, Eder Mateus Medina, Lorena Soto Retes, Alba García Moral, Montserrat Torregón Lázaro, Alicia Belda Soler, Jordi Giner Donaire, David Ramos Barbón, Vicente Plaza Moral

PA1096  Serum eosinophil cationic protein as a potential biomarker for interleukin-5 antibody treatment in patients with severe uncontrolled eosinophilic asthma
Maike Wilk (Mainz, Germany), Buhl Roland, Korn Stephanie

PA1097  Prognostic value of using FeNO to guide step-down treatment decisions in asthma
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Kay Wang, Jan Verbakel, Alex Fleming-Nouri, Josh Brewin, Jason Oke, Mike Thomas

PA1098  The Relationship between Fractional exhaled nitric oxide (FeNO) and Asthma Control and Asthma Severity in Asthmatic Adults in Vietnam
Vinh Nguyen Nhu (Ho Chi Minh City, Vietnam), Ngoc Tran Van, Ba Nguyen Thi Thu, Mike Thomas, Christos Lionis, Niels Chavannes

PA1099  Fractional exhaled nitric oxide is associated with more severe asthma
Stephanie Korn (Mainz, Germany), Lucia Lanz, Stefanie Voigt, Maike Wilk, Roland Buhl

PA1100  Measurement of exhaled nitric oxide: comparison of 3 different analyzers
Stephanie Korn (Mainz, Germany), Maike Wilk, Stefanie Voigt, Thomas Keller, Roland Buhl

PA1101  Comparison of fractional exhaled nitric oxide (FeNO) levels measured by different analysers
Junpei Saito (Fukushima, Japan), Masami Kikuchi, Atsuro Fukuhara, Suguru Sato, Mami Rikimaru, Yasuhito Suzuki, Manabu Uematsu, Ryuichi Togawa, Yukiju Sato, Takefumi Nikaido, Yoshinori Tanino, Mitsuru Munakata, Yoko Shibata

PA1102  Effect of obesity and overweight on the intestine microbiota in patients with asthma.
Svetlana Marova (St. Petersburg, Russian Federation), Natalia Shaporova, Olga Dudina

TP-24  Session 116  12:50 - 14:40

Thematic poster: Translational models of the immunopathology that underlies airway obstructive diseases

Disease(s) : Airway diseases  Respiratory infections
Method(s) : Physiology  Cell and molecular biology  Public health

Chairs : Cecilia K. Andersson (London, United Kingdom), Hans Jürgen Heinrich Hoffmann (Århus, Denmark), Konstantinos Samitas (Athens, Greece), Anna Konischeva (Moscow, Russian Federation)

Soluble ADAM33 augments the pulmonary innate immune response promoting susceptibility to allergic airway inflammation
Joanne Kelly (Southampton (Hampshire), United Kingdom), Joanne Kelly, Elizabeth Davies, Yan Xu, Jeffery Whitsett, Donna Davies, Hans Michael Haitchi
<table>
<thead>
<tr>
<th>Poster</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1104</td>
<td>Activity of an innate defence regulator peptide to alleviate airway inflammation is mitigated by disruption of its central hydrophobic region. Hadeesha Piyadasa (Winnipeg (MB), Canada), Mahadevappa Hemshekhar, Anthony Altieri, Sujata Basu, Anne M Van Der Does, Andrew J Halayko, Pieter S Hiemstra, Neeloffer Mookherjee</td>
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<tr>
<td>PA1105</td>
<td>Nlrc5 is involved in allergic airway inflammation and negatively regulates inflammatory signaling pathway via TLR2/NF-κB. Rongyu Liu (Hefei (Anhui), China), Muzi Wang</td>
</tr>
<tr>
<td>PA1106</td>
<td>Implication of NOD-1 receptor in an experimental house dust mite-induced asthma model. SALIHA AIT YAHIA (LILLE, France), Camille Audousset, Daniel Alvarez Simon, Han Vongr, Philippe Marquillies, Myriam Delacre, Mathias Chamaillard, Anne Tsicopoulos</td>
</tr>
<tr>
<td>PA1107</td>
<td>Lactobacillus bulgaricus reduces the expression of Toll-like 4 receptor on dendritic cells and attenuates the airway inflammation in asthmatic mice. Flavio Aimbire (Sao Jose Dos Campos (SP), Brazil), Elen Anatriello, Aurileia Britto, Regiane Albertini, Ana Paula De Oliveira, Alexandre Keller</td>
</tr>
<tr>
<td>PA1108</td>
<td>Interleukin-6 is important for the development of Acinetobacter Iwofill-mediated protection against asthma. Daniel Piotr Potaczek (Marburg, Germany), Hani Harb, Bilal Alashkar Alhanwe, Esma Kilic-Niebergall, Dörthe Kesper, Holger Garn, Harald Renz</td>
</tr>
<tr>
<td>PA1109</td>
<td>EFFECT OF TGF-ß AND IL-10 ON TH1/TH2 IMBALANCE IN OVA-INDUCED ASTHMA MOUSE MODEL. Jing Liu (München, Germany), Bingdi Yan, Jinyan Yu, Yanlei Li, Yanjun Xue</td>
</tr>
<tr>
<td>PA1110</td>
<td>Role of IL-33 signaling in pollutant-induced allergic airway inflammation. Tania Maes (Ghent, Belgium), Katrien De Grove, Sharen Provoost, Harald Braun, Andrea Teufelberger, Olga Krysko, Rudi Beyaert, Guy Brusselle, Guy Joos</td>
</tr>
<tr>
<td>PA1111</td>
<td>Resolvin E3 attenuates hous dust Mite (HDM) -induced asthmatic inflammation in a murine model. Makiko Sato (Gunma, Japan), Haruka Aoki-Saito, Hayato Fukuda, Hirouki Ikeda, Yasuhiko Koga, Masakiyo Yatomi, Hiroaki Tsurumaki, Yoshimasa Hachisu, Takashi Nakakura, Tetsuya Mori, Kunio Dobashi, Masanobu Yamada, Satoshi Shuto, Takeshi Hisada</td>
</tr>
<tr>
<td>PA1112</td>
<td>House dust mite impairs viral stimulus-induced IL-8 and TNF-a production in bronchial epithelial cells from asthmatics. Samuel Carps (LUND, Sweden), Sangeetha Ramu, Cecilia Andersson, Hamid Akbarshahi, Asger Sverrild, Celeste Porsbjerg, Lena Uller</td>
</tr>
<tr>
<td>PA1113</td>
<td>IL-4 induces collective cell migration in the well-differentiated human nasal epithelia cell layers via avß5 and avß6 integrins. Sang-Nam Lee (Seoul, Republic of Korea)</td>
</tr>
<tr>
<td>PA1114</td>
<td>Validation of a macrophage specific cell line for the development of an in vitro lower airways co-culture model. Abigail Martin (Hatfield (Hertfordshire), United Kingdom), Victoria Hutter, David Chau, Darragh Murnane</td>
</tr>
<tr>
<td>PA1115</td>
<td>Extracellular Hsp70 alters cigarette smoke-induced pro-inflammatory responses in human macrophages. Lada Rumora (Zagreb, Croatia), Andrea Hulina, Lucija Franin, Martina Bosnar, Irene Heijink</td>
</tr>
<tr>
<td>PA1116</td>
<td>Proteomic profiling to define synergistic responses mediated by IL-17 and TNFa in the lungs. Anthony Altieri (Winnipeg (MB), Canada), Hadeesha Piyadasa, Victor Spicer, Andrew J. Halayko, Neeloffer Mookherjee</td>
</tr>
<tr>
<td>PA1117</td>
<td>IL-17A producing lymphocytes in end stage lung disease. Anna-Maria Dittrich (Hannover, Germany), Melanie Albrecht, Deji Ishola Olawaseun, Sophia Pallenberg, Peter Braubach, Danny Jonigk, Gregor Warnecke, Gesine Hansen</td>
</tr>
</tbody>
</table>

**TP-25 Session 117**

**Thematic poster: Role of IgE and interleukin (IL)-5 in Th2-cell signatures**

**Disease(s):** Airway diseases, Pulmonary vascular diseases, Respiratory infections, Respiratory infections

**Method(s):** Epidemiology, Respiratory intensive care, Imaging, General respiratory patient care, Cell and molecular biology
PA1123 Late Breaking Abstract - Revisiting interpretation of blood eosinophil counts (BECs): data from Brazil
Namhee Kwon (Brentford (Middlesex), United Kingdom), Emilio Pizzichini, Aruna Bansal, Frank Albers, Neil Barnes, John Riley, Aline Lima-Matos, Eduardo Ponte, Alvaro Cruz

PA1124 Dupilumab improves asthma-related patient reported outcomes in asthma patients with chronic rhinosinusitis or nasal polyposis (CRS/NP) in LIBERTY ASTHMA QUEST
Mario Castro (St. Louis, United States of America), Jonathan Corren, Jorge F. Maspero, Antonio L. Valero Santiago, Piotr Kuna, Sophie Guillonneau, Quannming Dong, Christine Taniou, Heribert Staudinger, Jingdong Chao, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper, Asif Khan

PA1125 Dupilumab improves SNOT-22 scores in asthma patients with chronic rhinosinusitis or nasal polyposis (CRS/NP) in LIBERTY ASTHMA QUEST
William Busse (Madison, United States of America), Jorge F. Maspero, Contance H. Katelaris, Dinesh Saralaya, Sophie Guillonneau, Bingzhi Zhang, Christine Taniou, Heribert Staudinger, Jingdong Chao, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper, Asif Khan

PA1126 Assessment of Efficacy Omalizumab Retreatment in Patients With Severe Asthma
Yavuz Havlucu (Manisa, Turkey), Arzu Yorgancioglu

PA1127 IMPACT OF OMALIZUMAB ON ALLERGIC ASTHMA - THE LAST 10 YEAR
Maria Raquel Araujo Pereira (Braga, Portugal), Inês Ladeira, Ricardo Lima, Inês Franco, Ivone Pascoal, Aurora Carvalho

PA1128 The effect of omalizumab on blood eosinophils count in patients with hyperresponsiveness to non-steroidal anti-inflammatory drugs (NSAID) compared to patients who tolerate NSAID-pilot study
Izabela Kupryś-Lipińska (Łódź, Poland), Lucyna Mastalerz, Pawel Majak, Katarzyna Tyra, Joanna Molinska, Mateusz Jonakowski, Zofia Kurmanowska, Marta Latek, Damian Krzyzanowski, Aleksandra Zal, Piotr Kuna

PA1129 Is omalizumab response influenced by passive smoking in severe asthma?
Jose Miguel Chatkin (Porto Alegre (RS), Brazil), Daniela Caixalet Blanco, Lais Martins Becher, Luciana Zani Da Silva, Cynthia Rocha Dullius, Fabiane Kahan, Sabrina Rocha Machado

PA1130 Patients eligible for anti-IL-5/anti-IL-5Ra treatment in a cohort of adult-onset asthma
Pinja Ilmarinen (Seinäjoki, Finland), Leena E Tuomisto, Onni Niemelä, Hannu Kankaanranta

PA1131 Effectiveness of anti-IgE and anti-IL-5 treatment in step 5 asthma patients.
Junko Saji (Kanagawa, Japan), Hiromi Muraoka, Eriko Nishimoto, Shin Matsuzawa, Mariko Okamoto, Teppei Inoue, Hiroshi Handa, Hiroki Nishine, Takeo Inoue, Terumi Miyazawa, Masamichi Mineshita

PA1132 Increase in systemic IL-5 is associated with mepolizumab treatment failure in patients with severe asthma
Sabina Skrgat (Golnik, Slovenia), Petra Girandon, Sušanj, Urška Bidovec Stojkovič, Peter Korošec

PA1133 Change of lung function in severe eosinophilic asthma undergoing treatment with anti-interleukin-5 monoclonal antibody
Leonardo Antonicelli (Ancona (AN), Italy), Alessandro Gobbi, Maria Beatrice Bilò, Maria Stella Garritani, Maria Feliciana Brianzoni, Raffaele Dellacà

PA1134 Asthma rehabilitation at high vs. low altitude and its impact on exhaled nitric oxide and sensitization patterns: randomized parallel-group trial
Silvia Ulrich (Zurich, Switzerland), Stéphanie Saxer, Simon Schneider, Mona Lichtblau, Patrick Bader, Paula Appenzeller, Bernet Estevesoba, Berik Emilov, Talant Sooronbaev, Sara Micaletto, Peter Schmid, Konrad Bloch

PA1135 Increased Severity of Asthma in Atopic Patients with Eosinophilic Granulomatosis with Polyangiitis
Alvise Berti (Milan, Italy), Gerald Volcheck, Divi Corne, Robert Smyth, Ulrich Specks, Karina Keough

PA1136 Application of the ISHAM criteria for diagnosis of ABPA in a clinical cohort at a university teaching hospital
Radhika Banka (Mumbai (Maharashtra), India), Ajay Kamath

PA1137 Effectiveness of itraconazole and systemic steroids in the treatment of ABPA
Kshitij Agarwal (New Delhi (Delhi), India), Gaurav Bhati, Gulvir Singh, S. N. Gaur, Anuradha Chowdhary

PA1138 The significance of plasma exchange in the treatment of double-positive for ANCA and anti-GBM disease
Kazuko Uto (Miyazaki, Japan), Shigeasa Yanagi, Nobuhiro Matsumoto, Masamitsu Nakazato

PA1139 Comparison of slgG4 levels among allergic patients and patients during ASIT
Guzel Feyzkhanaova (Moscow, Russian Federation), Olga Smolovskaya, Sergei Voloshin, Ludmila Pavlushkina, Eugenia Antonova, Tatiana Filatova, Alexander Zasedatelev, Alla Rubina
| PA1140 | Immunoglobulin G4-related pneumonitis and myositis: an atypical presentation of an atypical case. | Neel Thakkar (Vadodara (Gujarat), India), Amita Nene |
| PA1141 | Alpha-1 antitrypsin deficiency and pulmonary morbidity in patients with primary immunodeficiency disease: A single center experience | Georg Evers (Münster, Germany), Arik Bernard Schulze, Michael Thrull, Georg Lenz, Lars Henning Schmidt, Michael Mohr |

**TP-26**

**Session 118** 12:50 - 14:40

Thematic poster: Epidemiology of asthma and allergy: prevalence, incidence and risk factors

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Airway diseases</th>
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<tr>
<td>Method(s)</td>
<td>Respiratory intensive care General respiratory patient care Epidemiology Public health</td>
</tr>
<tr>
<td>Chairs</td>
<td>Valerie Siroux (La Tronche, France), Benedict Leynaert (Paris, France), Cecilie Svanes (Bergen, Norway), Helena Backman (Luleå, Sweden)</td>
</tr>
<tr>
<td>Use of aerobiological information systems in pollen allergy management</td>
<td>Sandra Baldacci (Pisa (PI), Italy), Sara Maio, Marzia Simoni, Anna Angino, Patrizia Silvi, Stefania La Grutta, Giovanni Viegi, Franco Ruggiero, Gianni Bedini, Francesca Natali, Lorenzo Cecchi, Marija Prentovic, Uwe Berger, Amir Moustafa, Isabella Annesi-Maesano, Samuel Monnier, Michel Thibaudon, Simone Orlandini</td>
</tr>
<tr>
<td>IgE-sensitization profiles and lung function: a longitudinal study from childhood to early adulthood in the EGEA study</td>
<td>Valerie Siroux (La Tronche, France), Anne Boudier, Christian Lupineck, Jocelyne Just, Rachel Nadif, Rudolf Valenta, Jean Bousquet, Isabelle Pin</td>
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<tr>
<td>Age-specific incidence of new asthma diagnosis from childhood to late adulthood</td>
<td>Jasmin Honkamäki (Tampere, Finland), Hanna Hisinger-Molken, Pinja Ilmarinen, Paivi Pirilä, Leena E Tuomisto, Heidi Andersen, Heini Huhtala, Anssi Sovijarvi, Helena Backman, Bo Lundback, Eva Ronmark, Lauri Lehtimäki, Hannu Kankaanranta</td>
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<tr>
<td>Incidence and risk factors for asthma from childhood to young adulthood</td>
<td>Linnea Hedman (Luleå, Sweden), Helena Backman, Caroline Stridsman, Martin Andersson, Eva Ronmark</td>
</tr>
<tr>
<td>Prevalence of asthma among pregnant women in Ilorin, Nigeria</td>
<td>Oluotobi Ojuawo (Ilorin (Kwara State), Nigeria), Ofolumi Desalu, Kikelomo Adesina, Idowun Ogunlaja, Wemimo Alaojin, Adeniyi Aladesanmi, Christopher Opeyemi, Taofeek Oloyede, Micheal Oguntuye, Alakija Salami</td>
</tr>
<tr>
<td>Association between cured meat intake and asthma symptoms</td>
<td>Roland Michel Andrianasolo (Bobigny, France), Emmanuelle Kesse-Guyot, Adjibade Moufadith, Serge Hercberg, Pilar Galan, Raphaëlle Varraso</td>
</tr>
<tr>
<td>Does Body Mass Index and asthma affect work ability? Cross-sectional data from the general population in Telemark, Norway.</td>
<td>Geir Klepaker (Skien, Norway), Martin Veel Svendsen, Jens Kristoffer Hertel, Johny Kongerud, Anne Kristin Moller Fell</td>
</tr>
<tr>
<td>Burden of pollen allergy in 3 European countries: AIS LIFE project</td>
<td>Sandra Baldacci (Pisa (PI), Italy), Sara Maio, Marzia Simoni, Anna Angino, Patrizia Silvi, Stefania La Grutta, Giovanni Viegi, Franco Ruggiero, Gianni Bedini, Francesca Natali, Lorenzo Cecchi, Marija Prentovic, Uwe Berger, Amir Moustafa, Isabella Annesi-Maesano, Samuel Monnier, Michel Thibaudon, Simone Orlandini</td>
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<td>Airway inflammation and lung function in atopic and non-atopic rhinitis</td>
<td>Mario Olivieri (Verona (VR), Italy), Pierpaolo Marchetti, Salvatore Battaglia, Francesca Locatelli, Roberta Vesentini, Marcello Ferrari, Giuseppe Verlato</td>
</tr>
</tbody>
</table>
PA1153 Allergic multi-morbidity is associated with an increased risk of asthma in adults: a population-based case control study
Sanna Toppila-Salmi (Helsinki, Finland), Sebastien Chanoine, Jussi Karjalainen, Juha Pekkanen, Jean Bousquet, Valérie Siroux

PA1154 Age at asthma diagnosis in subjects with and without allergic rhinitis.
Johanna Pakkasela (Tampere, Finland), Pinja Ilmarinen, Jasmin Honkamaki, Leena E Tuomisto, Heidi Andersen, Paivi Piirila, Hanna Hisinger-Molkansen, Anssi Sovijarvi, Helena Backman, Bo Lundback, Eva Ronmark, Hannu Kankaanranta, Lauri Lehtimaki

PA1155 An observational study to characterize severe eosinophilic asthma in New Zealand
Yu-Fan Ho (Singapore, Singapore), Sumitra Shantakumar, Janine Beale, Barry Gribben

PA1156 Unbiased clinical cluster analysis across a combined European and a Brazilian severe asthma (SA) population.
John Riley (Uxbridge (Middlesex), United Kingdom), Aruna Souza-Machado, Paula Almeida, Valmar Biao-Lima, Stewart Bates, Kian F-Chung, Peter Sterk, Alvaro A.Cruz

PA1157 Societal costs of severe asthma in Sweden
Sven-Arne Jansson (Umeå, Sweden), Helena Backman, Maria Andersson, Gunilla Telg, Anne Lindberg, Britt-Marie Eklund, Bo Lundbäck, Eva Rönmark

PA1158 Age-of-asthma onset and epidemiological characteristics of late-onset asthma in a general population
Ha-Kyeong Won (Seoul, Republic of Korea), Jung-Hyun Kim, Sung-Yoon Kang, Min-Gyu Kang, So-Hee Lee, Sun-Sin Kim, Yoon-Seok Chang, You Sook Cho, Sang-Heon Cho, Woo-Jung Song

PA1159 Male sex, younger age and smoking contribute to low participating rate in an epidemiological study of asthma and respiratory symptoms
Petri Räisänen (Luleå, Sweden), Helena Backman, Sven-Arne Jansson, Linnea Hedman, Caroline Stridsman, Bo Lundbäck, Anne Lindberg, Eva Rönmark

PA1160 Prevalence of asthma and allergy-related diseases among adolescents of West Bengal, India: Results of the PERFORMANCE study
Saibal Moitra (Kolkata (West Bengal), India), Prasun Haldar, Santi Gopal Maity, Soumya Bhattacharjee, Smriti Debnath, Sujoy Saha, Ritabrata Mitra, Isabella Annesi-Maesano, Judith Garcia-Aymerich, Subhabrata Moitra

PA1161 The prevalence of bronchial asthma symptoms among adult population of Moscow (a population-based study).
Maryana Tubekova (Moscow, Russian Federation), Maryana Tubekova, Tatiana Bilichenko

PA1162 Asthma and allergic rhinitis increase respiratory symptoms and disability in cold weather
Henna Hyrkäs-Palmu (University of Oulu, Finland), Tiina Ikäheimo, Tiina Laatikainen, Pekka Jousilahti, Maritta Jaakkola, Jouni Jaakkola

TP-27 Thematic poster: Epidemiology of COPD : from exacerbations and comorbidities to asthma-COPD overlap syndrome (ACOS)

Disease(s) : Airway diseases
Method(s) : Physiology  Public health  Epidemiology

Chairs : David Mannino (Lexington, United States of America), Ane Johannessen (Bergen, Norway), Elizabeth Oelsner (New York, United States of America), Elaine Fuertes (Barcelona, Spain)

PA1163 Late Breaking Abstract - Inhaled corticosteroids (ICS), blood eosinophils (EOS), and FEV1 decline in patients with Chronic Obstructive Pulmonary Disease in a large UK primary healthcare setting
Hannah Whittaker (London, United Kingdom), Hana Mullerova, Deborah Jarvis, Neil Barnes, Paul Jones, Chris Compton, Steven Kiddle, Jennifer Quint

PA1166 Eligibility for lung volume reduction surgery in COPD patients identified in a UK primary care setting
Hannah Whittaker (London, United Kingdom), Olivia Connell, Amany Elbehairy, Jennifer Campbell, Nick Hopkinson, Jennifer Quint

PA1164 The same COPD patients, different GOLD criteria – what are the consequences of changing GOLD 2007-2011-2017 recommendations?
Grzegorz Brozezk (Katowice, Poland), Narcin Nowak, Jankowski Mateusz, Jan Zejda

PA1165 Underweight and weight loss are associated with greater mortality from chronic obstructive pulmonary disease (COPD) in middle-aged Japanese: The JACC study
Hiroo Wada (Tokyo, Japan), Ai Ikeda, Koutatu Maruyama, Kazumasa Yamagishi, Takeshi Tanigawa, Akiko Tamakoshi, Hiroyasu Iso
<table>
<thead>
<tr>
<th>PA1183</th>
<th>Exposure/Effect Biomarkers and Respiratory Adverse Outcomes in Metal Plating Workers</th>
<th>Felicia Gradinariu (Iasi, Romania), Irina Anca Popenescu, Rasvan Danulescu, Ovidiu Petris, Viorel Cazuc</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA1184</td>
<td>Effect of submaximal exercise and diesel exposure on lung inflammation in mice</td>
<td>Tatjana Decaesteker (Leuven, Belgium), Kristel Trekels, Dominique Bullens, Jeroen Vanoirbeek, Lieven Dupont</td>
</tr>
<tr>
<td>PA1185</td>
<td>Primary nodal anthracosis identified by EBUS-TBNA as a cause of high PET-CT FDG uptake in mediastinal lymph nodes: case series</td>
<td>Sehnaz Olgun Yıldızeli (Istanbul, Turkey), Emine Bozkurtlar, Derya Kocakaya, Huseyin Arıkan, Emel Eryuksel, Berrin Ceyhan, Sait Karakurt</td>
</tr>
<tr>
<td>PA1186</td>
<td>Welding fumes change the lipid composition of particles in exhaled air.</td>
<td>Göran Ljungkvist (Göteborg, Sweden), Jeong-Lim Kim, Emilia Viklund, Helen Friberg, Annika Claesson, Anna-Carin Olin</td>
</tr>
<tr>
<td>PA1187</td>
<td>Polymetallic dust (PD)-induced pneumoconiosis, experimental study.</td>
<td>Galina P. Orlova (St. Petersburg, Russian Federation), Ivetta V. Dvorakovskaya, Elena S. Lebedeva</td>
</tr>
<tr>
<td>PA1188</td>
<td>Alteration in blood cellular populations in patients with chronic silicosis caused by artificial quartz agglomerates</td>
<td>Antonio Leon Jimenez (Cádiz, Spain), Gema Jiménez Gómez, Antonio Hidalgo Molina, Aránzazu Pérez Alonso, José María Morales Morales, Juan Antonio Córdoba Doña, Antonio Campos Caro</td>
</tr>
<tr>
<td>PA1189</td>
<td>Isolation of nontuberculous mycobacteria from in-use waters of burns and haemodialysis hospital units</td>
<td>Ehsan Aryan (Masahad, Islamic Republic of Iran), Azra Haghani-Nasimi, Mohammad Derakshan, Davoud Mansouri, Zahra Meshkat, Masoud Yousefi</td>
</tr>
<tr>
<td>PA1190</td>
<td>Alteration of lung defense mechanisms after acute and chronic exposure to urban coarse PM</td>
<td>Muriel Pichavant (Lille, France), Cécile Vignal, Gwenola Kervoaze, Madjid Djouina, Christophe Waxin, Laurent Alleman, Esperenza Perdrix, Corinne Gower-Rousseau, Philippe Gosset, Mathilde Body-Malapel</td>
</tr>
<tr>
<td>PA1191</td>
<td>Pneumoproteins in offshore drill floor workers</td>
<td>Dag Ellingsen (Oslo, Norway), Niels Kirkhus, Bente Ulvestad, Raymond Olsen, Lars Barregaard, Yngvar Thomassen</td>
</tr>
<tr>
<td>PA1192</td>
<td>Evaluation of nasal and pulmonary epithelium of mice submitted to acute exposure to herbicide 2,4-dichlorophenoxyacetic acid</td>
<td>Renata C Rossi (Presidente Prudente (SP), Brazil), Fabiola De Azevedo Mello, Gisele Quinallia, Ana Carolina Marion, Fernanda Cardoso Jorge, Laura Monica Marinelli, Ana Paula Alves Favareto</td>
</tr>
<tr>
<td>PA1193</td>
<td>Changes in hematologic indices and inflammatory markers in a double-blind real world traffic exposure study</td>
<td>Karen Jansen (Seattle, United States of America), Tim Gould, Jim Stewart, Michael Young, Pat Janssen, Zahra Afsharinejad, Cora Sack, Tim Larson, Sverre Vedal, Joel Kaufman</td>
</tr>
<tr>
<td>PA1194</td>
<td>Biodiesel: is it any safer to use?</td>
<td>James A. Bolaji (London, United Kingdom), John J. Adcock, Thomas Sandström, Ian Mudway, Anders Bloomberg, Jenny Bosson, Terry D. Tetley, Mark A. Birrell, Maria G. Belvisi</td>
</tr>
<tr>
<td>PA1195</td>
<td>Post-flood risks of inhalatory exposure to Aspergillus section Flavi</td>
<td>Daniela Jakšić (Zagreb, Croatia), Miranda Sertić, Ana Mornar Turk, Domagoj Kifer, Nevenka Kopjar, Biljana Nigović, Maja Šegvić Klarić</td>
</tr>
<tr>
<td>PA1196</td>
<td>FIZZ1: a new pathway in silica-induced inflammatory mediators and pulmonary fibrosis</td>
<td>Vanessa Martins (São Paulo (SP), Brazil), Adriana Da Silva, Patriccia Rocco, Vera Capelozzi</td>
</tr>
<tr>
<td>PA1197</td>
<td>Clinical, functional and biomarkers differences between subjects exposed to silica, with and without silicosis</td>
<td>Elisa Lombardi (São Paulo (SP), Brazil), Gustavo Faibischew Prado, Mario Terra Filho, Ubiratan Paula Santos</td>
</tr>
<tr>
<td>PA1198</td>
<td>Primary and secondary transcriptional effects of traffic-related air pollution in human lung and coronary artery cells</td>
<td>Kristen Cosselman (Seattle, United States of America), Ying Lai, Teal Hallstrand, James Macdonald, Theo Bammler, Timothy Larson, Joel Kaufman</td>
</tr>
<tr>
<td>PA1199</td>
<td>Home particulate concentration reduction during high efficiency particulate air (HEPA) filter use</td>
<td>Dentiza Blagev (Salt Lake City, United States of America), Daniel Bride, Danielle Babbel, Daniel Mendoza, Benjamin Horne</td>
</tr>
<tr>
<td>PA1200</td>
<td>Mitochondrion: a critical target for the toxicity of air pollution-derived PM2.5 in healthy and COPD human bronchial epithelial cells</td>
<td>Guillaume GARCON (LILLE, France), Bérénice Leclercq, Jérôme Kluza, Sébastien Anthérieu, Jules Sotty, Laurent Alleman, Patrice Coddeville, Jean-Marc Lo Guidice, Philippe Marchetti</td>
</tr>
</tbody>
</table>
Thematic poster: Occupational and environmental lung diseases: influence on the airway and interstitium

**Disease(s):** Airway diseases  Interstitial lung diseases  Thoracic oncology

**Method(s):** Imaging  Physiology  Public health  Epidemiology  General respiratory patient care

**Chairs:** Paul K. Henneberger (Morgantown, Morgantown, United States of America), Ruth Wiggins (Manchester (Greater Manchester), United Kingdom), Torben Sigsgaard (Aarhus, Denmark), Metin Akgün (Erzurum, Turkey)

PA1202  **A new cause of work-related asthma: pyromelittic dianhydride**
Jesper Baelum (Odense C, Denmark), David L. Sherson, Milene Madsen, Lars Skadhauge, Anders D Nielsen

PA1203  **Kebab restaurant workers: A Risky Business**
Zafer Hasan Ali Sak (Şanlıurfa, Turkey), Serif Kurtulus, Birsen Oacakli, Ibrahim Bayhan, M.Irfan Yesİlnacar, Peri Arbak

PA1204  **Interstitial lung disease in seven construction worker who built an extension on hydrofluoric gas manufacturing factory**
Mi Yeon Kim (Incheon, Republic of Korea), Daeho Kim, Jung-Ah Shin, Hee Kyung Ahn, Byung-Soon Choi

PA1205  **Occupational COPD and smoking – a matter of inhalation?**
Else Würtz (Tjele, Denmark), Charlotte Brasch-Andersen, Rudi Steffensen, Jens Georg Hansen, Tine Halsen Malling, Vivi Schlunssen, Øyvind Omland

PA1206  **Increase in isocyanate-induced occupational asthma in Czech Republic**
Pavlína Klusáčková (Praha, Czech Republic), Bronislava Viest, Jindřiska Lebedová, Tomáš NavráTil

PA1207  **Obesity modifies the effect of WTC exposure on quantitative chest CT measured airway wall thickness**
Rafael E. de la Ho (New York, United States of America), Xiaoyu Liu, John T. Doucette, Yunho Jeon, Juan C. Celedón, Raúl San José Estepar

PA1208  **Early UK experience of referred cases of possible silicosis following updated guidance on silica health surveillance**
David Fishwick (Sheffield (South Yorkshire), United Kingdom), Chris M Barber, Mohamed Kamil

PA1209  **Distribution of sensitizer-induced occupational asthma in R. Macedonia by occupation in the period 2005-2017**
Jordan Minov (Skopje, FYROM (Macedonia)), Jovanka Karadzinska-Bislimovska, Saso Stoleski, Dragan Mijakoski, Aneta Atanasovska

PA1210  **Exhaled nitric oxide in mustard airway disease**
Rasoul Aliannejad (Tehrán, Islamic Republic of Iran), B. Fatemeh Nobakht M.Gh.

PA1211  **Late onset findings of paranasal sinuses CT & lung HRCT scan after Mustard gas inhalation**
Maryamossaadat Moeini Azad Tehran (Tehrán, Islamic Republic of Iran)

PA1212  **Comparison of number of asbestos bodies in formalin fixed lung tissue and paraffin block**
Holger Dressel (Zürich, Switzerland), Barbara Kuhn, Fabio Barresi, Bart Vrugt

PA1213  **Assessment of the incidence and risk factors of coal-worker’s pneumoconiosis (CWP) in Silesia, Poland.**
Renata Zlotkowska (Katowice, Poland), Alina Mroczek

PA1214  **Complications of Occupational Silicosis (OS)**
Maher Maoua (Sousse, Tunisia), Asma Chouchane, Aicha Brahem, Haifa Aroui, Imen Kacem, Sana El Guedri, Houda Kalboussi, Olfa El Maalel O, Souheil Chatti, Nejib Mrizak

PA1215  **Occupational diseases as a metaphor: do not cough!**
Ayşe Coşkun Beyan (İZMIR, Turkey), Yucel Demiral, Serhat Erdal

PA1216  **Outbreak of asthma, rhinitis and skin symptoms in processing of polyvinyl chloride-polyurethane (PVC-PU) fabrics**
Irmeli Lindström (Helsinki, Finland), Hille Suojalehto, Katri Suuronen

PA1217  **Lung Function Decline In Occupational Asthma (OA): A Comparison of Irritant-Induced Asthma and Sensitising OA.**
Maximillian Thomas (Birmingham (West Midlands), United Kingdom), Vicky Moore, Gareth Walters

PA1218  **Infant lung growth is associated with exposure to oxides of nitrogen**
Nithiseelan Rajen Naidoo (Durban, South Africa), Prakash Jeena, Sheena Muttoo, Kareshma Asharam, Aweke Mitku

PA1219  **A case of unsuspected hard metal lung disease in a thermal sprayer in NSW, Australia.**
Deborah Yates (Sydney (NSW), Australia), Samuel Sameh, Elizabethine Silverstone, Robert A Cohen, Jerrold L Abraham, Somya Sanyal, Tracy A Smith
PA1220 Longitudinal observation of firefighter lung function over nine years using impulse oscillometry
Flynn Slattery (Adelaide (SA), Australia), Kylie Johnston, Catherine Paquet, Alan Crockett

PA1221 Occupational asthma in a mycologist
Sherwood Burge (Solihull (West Midlands), United Kingdom), Gareth Walters, Vicky Moore, Alastair Robertson, Max Thomas

TP-30 Session 122 12:50 - 14:40

Thematic poster: Tobacco use and cessation interventions in patients with respiratory, cardiovascular and mental health problems and other populations

Disease(s) : Airway diseases  Sleep and breathing disorders  Respiratory infections  Respiratory infections
Method(s) : Physiology  Epidemiology  General respiratory patient care  Public health  Cell and molecular biology
Chairs : Sofia Belo Ravara (Covilhã, Portugal), James Allinson (London, United Kingdom), Keir E. Lewis (Llanelli (Dyfed), United Kingdom), Athina Diamanti (Pefki, Greece)

Active and passive smoking during pregnancy
Athina Diamanti (Pefki, Greece), Vasilios Raftopoulos, Katerina Lykeridou, Aikaterini Daliani, Stamata Giannareli, Stamata Panaiou, Sotiria Schoretsaniti, Efthimios Zervas, Christina Gratiou, Paraskevi Katsaounou

Effect of a short tobacco cessation intervention among pregnant women: pilot results of the TOB-G project
Constantine Vardavas (Athens, Greece), Theodosia Peleki, Victoria Vivilaki, Vergina Vyzikidou, Sophia Papakas, Andriani Loukopoulos, Vaso Evangelopoulos, Panagiotais Behrakis

Smoking cessation program: where do our patients come from?
Ana Santos (Porto, Portugal), Inês Oliveira, Rafaela Campanha, Cáitia Guimarães, Marta Frardinho, Cristina Matos, Fernando Nogueira

Characteristics of the patient who is successful or not in stopping smoking
Raul Godoy Mayoral (Albacete, Spain), Francisco Javier Callejas González, Ana Tornero Molina, Marta Genovés Crespo, Rafaela Sánchez Simón Talero, Patricia Lopez Miguel, Pedro Juan Tarraga Lopez

Treatment adherence and short term outcomes of smoking cessation outpatient clinic patients
Dilek Karadoğan (Rize, Turkey), özgür Onal, Deniz Say şAhin, Yalçın Kanbay, Sebih Alp, ünal şAhin

Adherence to a blended smoking cessation treatment
Marjolein Brusse-Keizer (Enschede, Netherlands), Lutz Siemer, Marloes Postel, Somaya Ben Allouch, Angelos Patrinospolou, Robbert Sanderman, Marcel Pieterse

How does reimbursement status affect the smoking cessation interventions?
Dilek Karadoğan (Rize, Turkey), Dilek Karadogan, Özgür Onal, Yalçın Kanbay

Supporting recruitment of community pharmacies for the STOP trial training using an embedded recruitment model (Russian doll approach)
Wai Yee James (London, United Kingdom), Sandra Jambe, Vichithranie Madurasinge, Sandra Eldridge, Stephanie Taylor, Colin Houlihan, Chris Griffiths, Robert Walton

Smoking and severe persistent asthma
Paraskevi Katsaounou (Athens, Greece), Mikaela Odemyr, Otto Spranger, Anne Lindberg, Michael E Hyland, Matthias Gasser, Michael Larbig, Ioannis Kottakis, Xavier Jaumont, Ismail Kasujejee

Analysis of the ratio of ACO in elderly and non-elderly asthmatics with a history of smoking
Akinori Ebihara (Tokyo, Japan), Asuka Nagai, Tokuzen Iwamoto, Ichiro Kuwahira

Smoking cessation among COPD and asthma patients: burden vs. motivation
Tomi Kovačević (Sremka Kamenica, Republic of Serbia), Bojan Zarić, Dario Bokan, Mirjana Jovančević Drvenica, Sanja Hromić, Biljana Zvezdin, Ilija Andrijević, Ivan Kopitović, Branslav Perin, Panagiotais Bamidis

Does chronic obstructive pulmonary disease (COPD) impact on women smoking cessation success?
Halima Ben Salem (Sousse, Tunisia), Moune Ben Khelifa, Hadhemi Rejeb, Seri Jdidi, Wafa Benzarti, Sana Aissa, Imen Gargouri, Ahmed Abdelghani, Abdelhamid Garrouche, Abdelaziz Hayouni, Mohamed Benzarti

“Lung age” – a motivational smoking cessation tool in smokers with chronic obstructive pulmonary disease
Ioana Porosnicu (Iasi (Iasi), Romania), Letitia Trofor, Cristina Vicol, Ionela Alina Grosu, Alexandra Tifrea, Constantin Vardavas, Panagiotais Behrakis, Antigona Trofor

The effect of bupropion on smoking cessation and sleep physiology in COPD and asthma patients
Darijo Bokan (Sremka Kamenica, Republic of Serbia), Mirjana Jovančević Drvenica, Tomi Kovačević, Bojan Zarić, Sanja Hromić, Biljana Zvezdin, Ivan Kopitovic, Ilija Andrijevic, Bransilav Perin, Panagiotais Bamidis
An Evaluation of a Smoking Cessation Service in a Regional Cardio-Thoracic Centre.
Deborah Beach (Harefield, United Kingdom), Tessa Jolliffe, Claire Chalwin, Jaymin Morjaria

The impact of tobacco cessation on the evolution of patients with non-ST-elevation acute coronary syndromes.
Rim khemakhem (sfax, Tunisia), Nouha Ayedi, Nessrine Kamoun, Walid Feki, Najla Bahoul, Nedia Moussa, Ilhem Yangui, Hajer Ayedi, Sami Kamoun, Rania Hammami, Samir Kamoun

Smoking in individuals with HIV/AIDS: a qualitative-quantitative approach
Ilda de Godoy (Botucatu (SP), Brazil), Ligia Lopes Devoglio, Irma Godoy

Does depression disorder have an important impact in smoking cessation?
Ana Cláudia Rodrigues Vieira (Almada, Portugal), Joana Ferra, Cristina Matos, Fernando Nogueira

HTR2A genetic variants as risk factors for cigarette smoking at an early age and relapse to smoking cessation treatment.

Pa1236
An Evaluation of a Smoking Cessation Service in a Regional Cardio-Thoracic Centre.
Deborah Beach (Harefield, United Kingdom), Tessa Jolliffe, Claire Chalwin, Jaymin Morjaria

Pa1237
The impact of tobacco cessation on the evolution of patients with non-ST-elevation acute coronary syndromes.
Rim khemakhem (sfax, Tunisia), Nouha Ayedi, Nessrine Kamoun, Walid Feki, Najla Bahoul, Nedia Moussa, Ilhem Yangui, Hajer Ayedi, Sami Kamoun, Rania Hammami, Samir Kamoun

Pa1238
Smoking in individuals with HIV/AIDS: a qualitative-quantitative approach
Ilda de Godoy (Botucatu (SP), Brazil), Ligia Lopes Devoglio, Irma Godoy

Pa1240
Does depression disorder have an important impact in smoking cessation?
Ana Cláudia Rodrigues Vieira (Almada, Portugal), Joana Ferra, Cristina Matos, Fernando Nogueira

Pa1241
HTR2A genetic variants as risk factors for cigarette smoking at an early age and relapse to smoking cessation treatment.
The effect of Smoking on the body composition according to bioimpedance the indigenous inhabitants of the Arctic zone of Western Siberia
Irina Protasova (Nadym (Yamal-Nenets), Russian Federation), Andrei Popov, Andrei Lobanov, Sergey Andronov, Ruslan Kochkin, Elena Bogdanova

Effect of smoking on changes in exhaled breath temperature secondary to exogenous hypoxia
Peter Dimov (Plovdiv, Bulgaria), Zdravko Taralov, Aneliya Draganova, Blagoi Marinov

Impact of smoking in quality of life and sleep: a prospective study
Catarina Carvalho Cordes Amaral Barata (Lisbon, Portugal), Rita Rosa, Inês Oliveira, Joana Carvalho, Marta Fradinho, Luisa Oliveira, Fernando Nogueira

Impact of nicotine abuse on sleep physiology
Mirjana Jovančević Drvenica (Novi Sad, Republic of Serbia), Darijo Bokan, Tomi Kovacevic, Ivan Kopitovic, Bojan Zarić, Sanja Hromis, Biljana Zvezdin, Miroslav Ilic, Iljia Andrijevic, Branislav Perin, Panagiotis Bamidis

Smoking status and levels of anxiety and depression in hospitalized patients.
Marli Maria Knorst (Porto Alegre (RS), Brazil), Caroline Uber Ghisi, Muriel Bossle Sarmento, Laura Grazziotin Vedana, Gabriela Buffon, Marcelo Basso Gazzana

Smoking and lung cancer
Souad Souilah (Alger, Algeria), Nassima Djami, Nesrine Dermech, Karim Khenouf, Yacine Benbetka, Rabah Amrane, Aziza Fissah

Carboxyhemoglobin level in patients undergoing home long term oxygen therapy declaring themselves as non-smokers.
Adam Nowinski (Warszawa, Poland), Damian Korzybski, Anna Czyzak-Gradkowska, Robert Pływaczewski, Pawel Sliwinski

Comorbid conditions and social determinants of smoking in the adult population.
Esra Uzaslan (Bursa, Turkey), Ozge A Guclu, Nilufer A Ozturk, Asli Dilektasli, Ezgi D Cetinoglu, Mehmet Karadag

TP-32 Session 124 12:50 - 14:40
Thematic poster: Role of omics in population studies

Disease(s) : Airway diseases, Pulmonary vascular diseases
Method(s) : Public health, Cell and molecular biology, Epidemiology

Chairs : Olena Gruzieva (Stockholm, Sweden), Susanne J. H. Vijverberg (Utrecht, Netherlands), Klaus Bonnelykke (Allerød, Denmark), Juan Celedon (Pittsburgh, United States of America)

Late Breaking Abstract - Mutations of BRWD1 may be associated with Primary Ciliary Dyskinesia
Ting Guo (chang sha, China), Zhi-Ping Tan, Hong Luo

DNA methylation and serum total immunoglobulin E (IgE) levels: a methylome-wide association study in adults with asthma
Sebastien Chanoine (La Tronche, France), Anaïs Malpertuis, Laura Beaumier, Dylan Aïssi, Emmanuelle Bouzigon, Elodie Boulier, Xiao Jian Shao, Mark Lathrop, Elin Grundgerg, Isabelle Pin, Florence Demenais, Valérie Siroux

Metabolite quantitative trait loci provide functional link between FADS2 and lung obstruction in asthmatics
Rachel Kelly (boston, United States of America), Scott Weiss, Bruce Levy, Benjamin Raby, Jessica Lasky-Su

Contribution of the Saguenay–Lac-Saint-Jean asthma familial cohort in the omic landscape of asthma
Jolyane Meloche (Saguenay (QC), Canada), Lucile Pain, Anne-Marie Boucher-Lafleur, Catherine Laprise

DNA-estimated ageing markers are associated with COPD
Maaieke de Vries (Groningen, Netherlands), Victor Guryev, Tristan V. De Jong, Judith M. Vonk, H. Marieke Boezen, Cleo C. Van Diemen

Exome sequencing reveals immune genes as susceptibility modifiers in α1-antitrypsin deficiency
Chiara Rigobello (Padova (PD), Italy), Simonetta Baraldo, Mariaenrica Tiné, Ilaria Ferrarotti, Angelo Corsico, Davide Biondini, Donato Lacedonia, Giovanna Elisiana Carpagnano, Maria Pia Foschino Barbaro, Giorgio Valle, Marina Saetta, Manuel Cosio

Transcriptomic alterations induced by air pollution-derived PM2.5 reflect the shift from healthy to COPD-diseased human bronchial epithelium
Sébastien Anthérieux (LILLE, France), Bérénice Leclercq, Laurent-Yvon Alleman, Esperanza Perdrix, Patrice Coddeville, Jean-Marc Lo-Guidice, Guillaume Garçon
Inhaled diesel exhaust alters plasma proteome signature
Neeloffr Mookherjee (Winnipeg (MB), Canada), Min Hyung Ryu, Mahadevappa Hemshekhar, Victor Spicer, Christopher Carlsten

ß2-adrenergic receptor polymorphisms and risk of COPD
Leila Karimi Gazarfroudi (Rotterdam, Netherlands), Lies Lahousse, Bruno H C Stricker, Johan Van Der Lei, Katia M Verhamme, Guy G Brusselle

TRPM8 polymorphism as an independent factor of bronchial obstruction in asthma
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Anna Prikhodko, Juliy Perelman, Victor Kolosov

Cold air alters MUC5AC and MUC5B expression in the airways of asthma patients
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Anna Prikhodko, Elena Pinegina, Juliy Perelman, Victor Kolosov, Xiangdong Zhou, Qi Li

Genomic analysis of CC16 as a biomarker for COPD
Xingnan Li (Tucson, United States of America), Stefano Guerra, Huashi Li, Stephanie Christenson, R Graham Barr, Christopher Cooper, David Couper, Mark Dransfield, Meilan Han, Nadia Hansel, Eric Hoffman, Richard Kanner, Eric Kleerup, Fernandez, Wanda O’Neal, Robert Paine, Prescott Woodruff, Deborah Meyers, Eugene Bleecker

New evidence of genetic adaptation to high altitude in Andean populations
Christina Eichstaedt (Heidelberg, Germany), Luca Pagani, Tiago Antao, Charlotte Inchley, Alexia Cardona, Alexander Mörseburg, Florian Clemente, Timothy Sluckin, Ene Metspalu, Mario Mitt, Reekid Mägi, Georgi Hudjashov, Mait Metspalu, Maru Mormina, Guy Jacobs, Tomoos Kivisild

Age at menopause and lung function: A Mendelian randomization study
Diana van der Plaat (Paris, France), Miguel Pereira, Giancarlo Pesce, James Potts, Andre Amaral, Shyamal Dharmage, Judith Garcia-Aymerich, Francisco Gomez-Real, Deborah Jarvis, Cosetta Minelli, Benedicte Leynaert

Body mass index and lung function: A two-step epigenetic Mendelian randomization study
Andre F.S. Amaral (London, United Kingdom), Matthias Wielscher, Cosetta Minelli, Juha Auvinen, Sylvain Sebert, Debbie Jarvis, Marjo-Riitta Jarvelin

Cardio metabolic traits and lung function: A Mendelian Randomization study
Andre F.S. Amaral (London, United Kingdom), Matthias Wielscher, Cosetta Minelli, Juha Auvinen, Sylvain Sebert, Debbie Jarvis, Marjo-Riitta Jarvelin

Genome-wide interaction study of environmental tobacco smoke exposure on time-to-asthma onset in childhood

Thematic poster: The bad and the ugly in paediatric asthma: comorbidities and exacerbations

Asthmatic adolescent anxiety and adaptation to illness
Silvia Castillo Corullón (Torrent (Valencia), Spain), Selene Valero-Moreno, Marian Pérez- Marín, Inmaculada Montoy a-Castilla, Amparo Escribano-Montaner

Emotional distress in children with problematic severe asthma is associated with parental anxiety and depression
Louise Selby (Cambridge (Cambridgeshire), United Kingdom), Frances Beresford, Sejal Saglani, Andrew Bush, Angela Jamalzadeh, Rachael Moore Crouch, Pippa Hall, Louise Fleming

Mother’s level of education and knowledge about asthma is a major determinant of asthma control in children: A multicenter study by Respiratory Research Network of India.
Sneha Limaye (Pune (Maharashtra), India), Sasidharan Bindusha, Mohammed Haseeb, Prasad Muley, Nilofer Mujawar, Premalatha Ramaswamy, Rajendra Kumar, Sanjay Bafna, Jagadish Dheke, Reyaz Malik, Barnali Bhattacharya, Suhai Kulkami, Sapna Madas, Shruti Sahasrabudhe, Sundee Salvi

Associations between indicators of socioeconomic status and childhood asthma
Valentina Cvejoska-Colakovska (Skopje, FYROM (Macedonia)), Emilija Vlashki, Mimi Kimovska, Lidiya Sekova, Vesna Micevska, Josh Lawson
PA1283 Physical activity and quality of life among children with well controlled asthma
Fotios Kirvassilis (Oraiokastro, Greece), Hatziaigorou, Pavlina Peftoulidou, Maria Parisi, Eleanna Kouroukli, Lemony Nousia, John Tzanakis

PA1284 Features of asthma control in obese children
Mykola Garas (Cherivtsi, Ukraine)

PA1285 Comparison of Body Fat Composition and Body Mass Index as a risk factor for severity of small airway obstruction in school-aged children in Korea
Hyemi Jee (Seongnam, Republic of Korea), Kyung Suk Lee, Eun Kyo Ha, Young-Ho Jung, Man Yong Han

PA1286 Scores of disease control and quality of life in atopic asthmatic children: relationship with disease history and lung volumes.
Mario Barreto (Roma (RM), Italy), Anna Prete, Melania Evangelisti, Susy Martella, Marilisa Montesano, Maria Pia Villa

PA1287 What is the commonest symptom of asthma in Indian children?
Deesha Ghorpade (Pune (Maharashtra), India), Monica Barne, Noopur Hedawoo, Nisha Kale, Sapna Madas, Sundeep Salvi

PA1288 Defining acute asthma severity – how do worldwide asthma guidelines compare?
Ann Mcmurray (Edinburgh (Edinburgh), United Kingdom), Louise Fleming, Steve Cunningham

PA1289 Asthma hospitalization rates and asthma mortality in Chilean Children: 2008-2014
Ana María Herrera Gana (Santiago, Chile), Gabriel Cavada Chacon

PA1290 Prognostic factors in severe eosinophilic asthma in children
Carlos Martinez Ribera (Barcelona, Spain), Clara Padró Casas, Maria Basagaña Torrentó, Marisa Rivera Ortúñ, Carlos Pollán Guisasola, Jose Tomas Navarro Ferrando, Eva Martinez Caceres, Aina Teniente Serra, Alicia Francoso Vicente, Maria Del Mar Martinez Colls

PA1291 Impact of risk factors on the requirement of long term preventers at 3 years following first admission for wheezing in the initial 2 years of life
Mahesh Babu Ramamurthy (Singapore, Singapore), Daniel YT Goh, Michael TC Lim, Melvin Qiyu Lee

PA1292 Functional status of ciliated epithelium during asthma exacerbation and remission in children
Natalia Kolosova (Moscow, Russian Federation), Irina Ozerskaia, Natalia Geppe, Ulyana Malayvina

PA1293 Risk factors for asthma exacerbation in children and adolescents
Andrey Sousa (São Paulo (SP), Brazil), Anna Lúcia Cabral, Milton Arruda Martins, Celso Rf Carvalho

PA1294 The role of Surfactant protein B in formation of respiratory diseases in former preterms
Oleksandr Mazulov (Vinnytsia, Ukraine), Olga Yablon, Iuliia Kyslova

PA1295 Prevalence and risk factors of fixed airway obstruction in children with asthma
Kelvin Yong Jie Lim (Singapore, Singapore), Oon Hoe Teoh, John Allen Jr, Qixian He, Arun Pugalenthi, Oh Moh Chay, Anne Goh, Petrina Wong, Yi Hua Tan, Zai Ru Cheng, Ai Huay Teo, Biju Thomas

PA1296 Obesity and respiratory function impairment in asthma and non asthmatic children
Carolina Vitale (Frattamaggiore (NA), Italy), Livio Vitiello, Miriana Picariello, Angelantonio Maglio, Fabio Cerrone, Miriam Schirò, Pietro Vajro, Alessandro Vatrella

PA1297 Laser Doppler flowmetry in the evaluation of microcirculation in children with bronchial asthma.
Natalia Kolosova (Moscow, Russian Federation), Natalia Geppe, Veronika Denisova, Anita Denisova, Natalia Lozko

PA1298 Obesity and respiratory function impairment in asthma and non asthmatic children
Carolina Vitale (Frattamaggiore (NA), Italy), Livio Vitiello, Miriana Picariello, Angelantonio Maglio, Fabio Cerrone, Miriam Schirò, Pietro Vajro, Alessandro Vatrella

PA1299 The effect of inhaled corticosteroids on hair cortisol
Esme J. Baan (Rotterdam, Netherlands), Erica L T Van Den Akker, Yolanda B De Rijke, Johan C De Jongste, Miriam Sturkenboom, Katia M Verhamme, Marjolein Engelkes, Hettie M Janssens

TP-34 Session 126 12:50 - 14:40
Thematic poster: Paediatric asthma: new mechanisms and tools
Disease(s) : Airway diseases, Respiratory infections
Method(s) : Cell and molecular biology, General respiratory patient care, Epidemiology
Chairs : Annelies M. Zwitserloot (Groningen, Netherlands), Carmelo Gabriele (Ancona (AN), Italy), Astghik Baghdasaryan (Yerevan, Armenia), Angela Zacharasiewicz (Wien, Austria)

Late Breaking Abstract - Tidal breathing variability during sleep is a sensitive marker of disease control in small children with recurrent wheeze
Davor Plavec (Zagreb, Croatia), Ville-Pekka Seppä, Marita Paassilta, Javier Gracia, Anton Hult, Jari Viik, Jussi Karjalainen
<table>
<thead>
<tr>
<th>PA1300</th>
<th>E-CADHERIN GENE PROMOTER METHYLATION IN PEDIATRIC ASTHMA PATHOGENESIS AND CLINICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hasan Yuksel (Manisa, Turkey), Kazim Zaraci, Ferda Ozkinay, Ozge Yilmaz, Tahir Atik, Yurda Basbay, Esra Isik</td>
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</tr>
</tbody>
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<tr>
<th>PA1301</th>
<th>Unsupervised and externally validated clinical cluster analysis from the U-BIOPRED paediatric cohorts</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>PA1302</th>
<th>Potential causes of variability in latent phenotypes of childhood wheeze</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceyda Oksel (London, United Kingdom), Raquel Granell, John Henderson, Adnan Custovic</td>
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<thead>
<tr>
<th>PA1303</th>
<th>Cytokines in asthma and obesity in children</th>
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</thead>
<tbody>
<tr>
<td>Niya Krasteva (Pleven, Bulgaria), Boiko Shentov, Stanimira Elkina</td>
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</table>

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<tr>
<th>PA1304</th>
<th>Farming exposure of mothers protects offspring from allergic diseases by modulating TLR-Tregs-Th axis of newborn</th>
</tr>
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<tbody>
<tr>
<td>Jing Liu (München, Germany), Jinyan Yu, Xiaqiu Liu, Yanli Li, Junling Yang</td>
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<thead>
<tr>
<th>PA1305</th>
<th>FENO is not a substitute for the methacholine challenge test in children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anja Keßler (Pöchow, Germany), Simon Paur, Äenne Glass, Dagmar-Christiane Fischer, Manfred Ballmann</td>
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<tr>
<th>PA1306</th>
<th>Exhaled nitric oxide fraction in asthmatic children: relationship with spirometric patterns and spirometric response to exercise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juan Manuel Figueroa (Ciudad Autónoma Buenos Aires, Argentina), Carlos Tomas Velasco Suarez, Magdalena Vocos, Gimena Donth Leger, Doris Primrose, Andrea Gugou</td>
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<tr>
<th>PA1307</th>
<th>Exercise-induced symptoms predict transition into adolescence in a clinical population</th>
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</thead>
<tbody>
<tr>
<td>Carmen de Jong (Bern, Switzerland), Eva Pedersen, Myrofora Goutaki, Daniel Trachsel, Juerg Barben, Claudia Kuehni</td>
<td></td>
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</tbody>
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<tr>
<th>PA1308</th>
<th>ADAM33 is involved in post-natal airway hyperresponsiveness caused by maternal allergic airway inflammation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marieke Wandel (Southampton (Hampshire), United Kingdom), Elizabeth R. Davies, Joanne F. C. Kelly, Stephen T. Holgate, Jeffrey A. Whitsett, Donna E. Davies, Hans Michael Haitchi</td>
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</tbody>
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<tr>
<th>PA1309</th>
<th>Airway responsiveness and inflammatory markers in non-asthmatic adolescents with elevated FeNO</th>
</tr>
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<tbody>
<tr>
<td>Pia Kalm-Stephens (Upsala, Sweden), Lennart Nordvall, Janson Christer, Malinovski Andrei, Alving Kjell</td>
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</tr>
</tbody>
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<tr>
<th>PA1310</th>
<th>The perception of dyspneu during exercise-induced bronchoconstriction in asthmatic children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chikako Motomura (Fukuoka, Japan), Takahito Ninomiya, Masatoshi Wakatsuki, Yuki Okamoto, Yuko Akamine, Toshiaki Kawano, Koki Okabe, Mihoko Iwata, Naohiko Tabata, Satoshi Honjho, Hiroshi Odajima</td>
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<tr>
<th>PA1311</th>
<th>Opinions towards the implementation of spirometry and exhaled nitric oxide testing in children under investigation for asthma in primary care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesley Danvers (Leicestershire, United Kingdom), David Lo, Nichola Harcombe, Damian Roland, Matthew Richardson, Yaling Yang, Andrew Wilson, Erol Gaillard</td>
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</tbody>
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<tr>
<th>PA1312</th>
<th>Is there any association between spirometry and impulse oscillometry in asthmatic preschool children?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paula Cristina Carvalho Vital Reis Leiria Pinto (Lisboa, Portugal), Pedro Martins, Isabel Peralta, Nuno Neuparth</td>
<td></td>
</tr>
</tbody>
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<tr>
<th>PA1313</th>
<th>Comparison of the analytical performance of the Euroline®, ImmunoCAP®, and ImmunoCAP ISAC 112® in vitro allergen sIgE diagnostic assays in the pediatric arm of the DZI All Age Asthma Cohort (ALLIANCE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrysanthi Skevaki (Athens, Greece), Anna Maria Dittrich, Markus Weckmann, Kathrin Eiringhaus, Nina Timmesfeld, Pavel Tafo, Matthias Kopp, Erika Von Mutius, Gesine Hansen, Harald Renz</td>
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<tr>
<th>PA1314</th>
<th>Misdiagnosis of children’s asthma is common in UK primary care and can be improved with objective tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Lo (Rothley, United Kingdom), Lesley Danvers, Damian Roland, Matthew Richardson, Yaling Yang, Caroline Beardsmore, Andrew Wilson, Erol Gaillard</td>
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<tr>
<th>PA1315</th>
<th>The use of exhaled nitric oxide (NO) to categorize asthma phenotype and treatment in children - Results from National Hospital of Pediatrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sy Duong-Quy (Da Lat, Vietnam), Hanh Nguyen-Thi-Bich, Huang Le-Thi-Minh, Craig Timothy</td>
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</tbody>
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<tr>
<th>PA1316</th>
<th>Nitrogen (N2) multiple breath washout: Assessment of ventilation inhomogeneity in severe paediatric asthma</th>
</tr>
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<tbody>
<tr>
<td>Patricia de Gouveia Belinelo (Newcastle (NSW), Australia), Aleisha Nielsen, Bernadette Goddard, Adam M. Collison, Paul D. Robinson, Bruce Whitehead, Jodi Hilton, Tanya Gulliver, Laurence Roddick, Lauren Platt, Kasey Pearce, Joerg Mattes</td>
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</tbody>
</table>
Thematic poster: Cystic fibrosis in adults: current research

**Disease(s):** Respiratory infections, Airway diseases, Respiratory critical care, Respiratory infections

**Method(s):** Cell and molecular biology, Physiology, Transplantation, Imaging, Endoscopy and interventional pulmonology, General respiratory patient care

**Chairs:** Nicholas Simmonds (London, United Kingdom), Robert Gray (Edinburgh, United Kingdom), Carsten Schwarz (Berlin, Germany), Chair to be confirmed

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**PA1317**

**Correlation of physical fitness with peripheral muscle strength, physical activity levels and lung function in patients with cystic fibrosis**

Marcio Donadio (Porto Alegre (RS), Brazil), Fernanda Vendrusculo, Gabriela Bueno, Natalia Campos, Ingrid Silveira, Mailise Gheller, Joao Heinzmann-Filho

**PA1318**

**Non-invasive ventilation during exercise in severe cystic fibrosis subjects: a preliminary study**

Raffaella Bellini (Negrar (Verona), Italy), Clizia Cazzarolli

**PA1319**

**In adults with cystic fibrosis (CF), the high-resolution computed tomography (HRCT) predicts maximal exercise capacity**

Ernesto Crisafulli (Modena (MO), Italy), Elisabetta Teopompi, Silvia Luceri, Francesco Longo, Paolo Pagano, Chiara Longo, Antonella Ielpo, Marina Aiello, Giuseppina Bertorelli, Nicola Sverzellati, Alfredo Chetta, Giovanna Pisi

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**PA1320**

**CARDIOPULMONARY ASSESSMENT AMONG ADOLESCENTS WITH CYSTIC FIBROSIS : THE “HEART” OF THE PROBLEM**

Giancarlo Tancredi (Roma (RM), Italy), Alessandra Favoriti, Caterina Lambiase, Desiree Mollicone, Valeria Tromba, Versacci Paolo, Luigi Graziano, Tamara Perelli

**PA1321**

**Real life experience of lumacaftor/ivacaftor in adult Phe508del homozygous cystic fibrosis patients.**

Giacomo Domenico Maria Bonizzoni, Michela Bellochica, Cristina Bena, Elisa Clivati, Carlotta Biglia, Sara Demichelis, Gianpiero Bandelli, Alessia Grande, Fabio Travessa, Carlo Albera, Barbara Messore

**PA1322**

**Real-life experience of Omalizumab in adult Cystic Fibrosis patients with allergic severe asthma and Allergic Bronchopulmonary Aspergillosis**

Michela Maria Bellochica (Torino (TO), Italy), Giacomo Bonizzoni, Carlotta Biglia, Cristina Bena, Elisa Clivati, Valentina Difino, Fabio Travessa, Sara Demichelis, Fabio Luigi Massimo Ricciardolo, Carlo Albera, Barbara Messore

**PA1323**

**Long-term outcomes and clinical worsening in cystic fibrosis patients with at least one residual function mutation**

Andrea Gramnegna (Milano (MI), Italy), Martina Contarini, Stefano Aliberti, Giovanni Sotgiu, Manuela Seia, Luigi Porcaro, Alessandra Colombo, Niccolò Vanoni, Francesco Amati, Giovanna Pizzamiglio, Marta Di Pasquale, Silvia DellaFiore, Maria Pappalettera, Carlo Castellani, Baroukh Maurice Assael, Francesco Blasi

**PA1324**

**Clinical characteristics and disease severity of adults with cystic fibrosis with at least one residual function mutation**

Martina Contarini (Gorgonzola (MI), Italy), Andrea Gramnegna, Stefano Aliberti, Giovanni Sotgiu, Manuela Seia, Luigi Porcaro, Alessandra Colombo, Niccolò Vanoni, Francesco Amati, Giovanna Pizzamiglio, Marta Di Pasquale, Silvia DellaFiore, Maria Pappalettera, Carlo Castellani, Baroukh Maurice Assael, Francesco Blasi

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**PA1325**

**A review of Lung Transplantation for Cystic Fibrosis in Ireland in 2017.**

Petra Grehan (Dublin 7, Ireland), Irene Byrne, J.J Egan, Dervilla Danaher, Heart And Lung Transplant Team

**PA1326**

**Macroscopic sputum quality assessments with a colour grading system in Cystic Fibrosis patients**

Beatrice Ferrari (Firenze (FI), Italy), Chiara Degl’Inocenti, Chiara Castellani, Eleonora Masi, Vito Terlizzi, Maria Chiara Cavicchi, Riccardo Guarise

**PA1327**

**Transmission-frequency of Aspergillus fumigatus in cystic fibrosis patients through coughing**

Monique H.E. Reijers (Molenhoek, Netherlands), Tobias Engel, Ellen Erren, Koen Vanden Driessche, Willem Melchers, Peter Merkus, Paul Verweij

**PA1328**

**Prospective study on clinical and immunological Aspergillus categorization in cystic fibrosis.**

Carsten Schwarz (Berlin, Germany), Svenja Kaufmann, Joris Fridolin Röhmel, Patience Eschenhagen, Anne Mehl, Carolin Meins, Doris Staab, Volker Rieckerts, Kathrin Seidel, Petra Bacher, Alexander Scheffold

**PA1329**

**Transmission of Pseudomonas aeruginosa eradication therapy on Cystic Fibrosis - Guideline and clinical routine**

Klaus Einhorn (Rostock, Germany), Manfred Ballmann

**PA1330**

**Treatment of atelectasis and severe mucus plugging in cystic fibrosis.**

Helga Eldottir (Vellinge, Sweden)
Assessment of mental health status in primary ciliary dyskinesia and cystic fibrosis patients and their parents
Sonia Graziano (Rome, Italy), Virginia Mirra, Nicola Ullmann, Raffaela Rusciano, Vincenzina Lucidi, Renato Cutrera, Paola Tabarini

Sputum glucose as a marker of disease severity in adult patients with cystic fibrosis
Andrea Gramagne (Milan (MI), Italy), Martina Contarini, Stefano Aliberti, Giovanni Sotgiu, Leonardo Terranova, Martina Oriano, Nicolò Vanoni, Francesco Amati, Giovanna Pizzamiglio, Marta Di Pasquale, Silvia Dellafiore, Maria Pappalettera, Baroukh Maurice Assael, Francesco Blasi

Sputum and plasma adiponectin levels in clinically stable adult cystic fibrosis patients with CFTR I1234V mutation
Atqah Abdul Wahab (Doha, Qatar), Mona Allangawi, Melin Thomas, Ilham Bettahli, Siveen Silvaraman, Jerobin Kumar, Prem Chandra, Manjunath Ramanjanyea

Implementing the International Committee on Mental Health in Cystic Fibrosis (ICMH) Guidelines: Practical complexities of managing mental health
Marieke Verkleij (Amsterdam, Netherlands), Jacqueline Boekhoff, Eric Haarman, Irma Bon, Ad F Nagelkerke, Janice Abbott

Coping in adult cystic fibrosis patients: Association with anxiety and depression
Nazlı Zeynep Uslu (Istanbul, Turkey), Şehnaz Olgun Yıldızeli, Derya Kocakaya, Emel Erşyüşel, Berrin Ceyhan

Thematic poster: Clinical problems in paediatric pulmonology

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TP-36  Session 128  12:50 - 14:40

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Impact on Adherence to the 2012 Evaluation and Management of Pediatric Community Acquired Pneumonia
Philippine Academy of Pediatric Pulmonologist (PAPP) Update
Lorraine Sharon Salvana (Quezon City, Philippines)

Polypharmacy in children hospitalized due to respiratory problems: data from a university hospital
Maria Gogou (Katerini, Greece), Andreas Giannopoulos, Katerina Haidopoulou

Relation of serum IGF-1 and IGFBP3 levels with acute exacerbation in cystic fibrosis
Pinar Ergenekon (Istanbul, Turkey), Furkan Eser, Emine Atag, Nilay Bas Ikizoglu, Ela Erdem Eralp, Yasemin Gokdemir, Serap Turan, Abdullah Bereket, Bulent Karadag

Hepatopulmonary syndrome prevalence and characteristics in children with cirrhosis in southern Brazil
Eduardo Garcia (Porto Alegre (RS), Brazil), Gabriela Coral, Marilia Ceza

Severity of air pollution in New Delhi and burden of paediatric respiratory illnesses - An Ecological Study
Charu Kohli (New Delhi (Delhi), India), Bratati Banerjee, Suneela Garg

Hydatid cyst in childhood: single center experience
Sevgi Pekcan (Ankara, Turkey), Meltem Kıyımağlı

Invasive mechanical ventilation at home in paediatric patients: the experience of a public health service/Brazil
Vinicius Oliveira (Tres Rios (RJ), Brazil), Eliza Borges, Laerte Borges Júnior, Hyster Ferreira, Alexya Ferreira, Antônio Carvalho, Ana Laura Paula, Vivian Azevedo, Wallisen Hattori

Metabolomics in the prediction of recurrent wheezing: a longitudinal healthy birth cohort study
Valentina Agnese Ferraro (Rosa' (VI), Italy), Eugenio Baraldi, Matteo Stocchero, Sara Bozzetto, Michela Maretti, Giuseppe Giordano, Paola Pirillo, Stefania Zanconato, Silvia Carraro

Management of intact and ruptured pulmonary hydatid cysts
Sabrine LOUHAICHI (Ariana, Tunisia), Sarra Zairi, Besma Hamdi, Mahdi Abdennadher, Hazem Zribi, Amira Dridi, Sonia Ouerghi, Adel Marghli

Vocal cord paralysis appears to be an acquired lesion in children with repaired esophageal atresia/tracheoesophageal fistula
Federica Porcaro (Roma (RM), Italy), Thomas Kovesi, Francesca Petreschi, Marilena Trozzi, Sergio Bottero, Renato Cutrera

Diagnostic accuracy of radiologic findings in children with suspected foreign body aspiration
Yu-Mi Park (Seoul, Republic of Korea), Kyung Hoon Kim, Hae Jin Lee, Eun Yae Yang, Hwan Soo Kim, Yoon Hong Chun, Jong-Seo Yoon, Hyun Hee Kim, Jin Taek Kim

Ruptured tracheoinnominate fistula following slide tracheoplasty and non-tuberculosis Mycobacteria tracheobronchitis treated with extracorporeal membrane oxygenation, endovascular stent graft and debranching surgical bypass
Yu-San Chien (Taipei City, Taiwan), Kuo-Sheng Lee, Kung-Hong Hsu

Lower airway pathology in children with Down syndrome compared to controls
Mariska De Lausnay (Lokeren, Belgium), Stijn Verhulst, Lieve Boel, Marek Wojciechowski, An Boudewyns, Kim Van Hoorenbeek

A child with tachypnea
Paolo Del Greco (Firenze (FI), Italy), Claudia Calogero, Grazia Fenu, Chiara Caparrelli, Cristina Beltrami, Maria Alice Donati, Stefano Avanelli, Anna Maria Buccoliero, Matteo Della Monica, Barbara Maria Bergamini, Enrico Lombardi

Does cobblestone appearance on bronchoscopy suggest gastro-oesophageal reflux disease?
Chukwudumebi Duru (Sheffield (South Yorkshire), United Kingdom), Laura Walker, Alison Scott

Psychosocial status of primary caregivers of children with tracheostomy
Ayse Tana Aslan (Ankara, Turkey), Tuğba İşimanlar Eyuboğlu, Tugba Ramosli Gurovoy, Sevgi Pekcan, Zeynep Buyukkaya, Melih Hangül, Mehmet Kose, Sebnem Soysal, Isil Irem Budakoglu
PA1364 What may stand behind chest pain: a case report
Michele Ghezzi (Bergamo, Italy), Lucia Migliazza, Giulia Giannotti, Maurizio Cheli, Ahmad Kantar

PA1365 A rare case of chest pain in children: pulmonary embolism
Pinar Ergenekon (Istanbul, Turkey), Emine Atag, Yasemin Gokdemir, E1a Erdem Eralp, Sait Karakurt, Omer Dogru, Bulent Karadag

PA1366 Post-intubation subglottic stenosis in children: analysis of clinical features and risk factors
Hakan Yazan (Istanbul, Turkey), Erkan Çakir, Ayse Ayzit Atabek, Omer Faruk Çalim, Selcuk Uzuner, Nurettin Onur Kufu, Orhan Öztürk

PA1367 Pleuropulmonary bastoma in children: an unusual presentation mimicking pneumonia
Laura Berdah (Paris, France), Sabah Boudjemaa, Helene Boutroux, Jean-Eude Piloquet, Aurore Coulomb, Hubert Ducou Le Pointe, Annick Clement

PA1368 The etiology of airway foreign bodies in children: analytical cohort study
Svetlana Sciucu (Chisinau, Republic of Moldova), Tatiana Ivas, Victor Rascov, Victoria Donos, Olga Ciuhrri, Stela Demcenco, Rodica Selevestru

PA1369 The value of radiography for diagnosis of airway foreign bodies in children
Svetlana Sciucu (Chisinau, Republic of Moldova), Victoria Donos, Victor Rascov, Tatiana Ivas, Stela Demcenco, Olga Ciuhrri, Liliana Toma, Rodica Selevestru

PA1370 The etiological specificity of bronchiectasis in Tunisian children
Besma Hamdi (Manouba oued ellil, Tunisia), Baraa Bdira, Emma Ben Jemai, Sarra Ammari, Jammel Ammar, Anissa Beraias, Agnes Hamzaou

PA1371 Diagnostic significance of HRCT imaging modifications in preterm infants with bronchopulmonary dysplasia
Svetlana Sciucu (Chisinau, Republic of Moldova), Ivanov Diana, Rodica Selevestru, Aliona Cotoman, Silvia Sevcenco, Eugenia Crivenceschi

PA1372 Abernethy syndrome: A rare cause of pulmonary hypertension
Tuğba Şişmanlar Eyuboglu (Ankara, Turkey), Tugba Ramaslı Gursoy, Ismail Akdulum, Ayse Tana Aslan, Oznur Boyunaga

PA1373 Fiberoptic endoscopic evaluation of swallowing as a diagnostic tool in infant silent aspiration
Vasilis Grammeniatis (Athens, Greece), Alexander Delides, Thomas Nikolopoulos, Angeliki Galani, Kostas Priftis, Kostas Douros

PA1374 Flexible bronchoscopy in diagnosis and removal of foreign body aspiration in children
Fotios Kirvassilis (Oraiokastro, Greece), Elpis Hatziagorou, Marina-Triantafyllia Kotzamani, Maria Karailidou, Athanasios Skours, George Kontzoglou, John Tsanakas

PA1375 EVALUATION OF RESPIRATORY IMPEDANCE AND VENTILATORY HOMOGENEITY IN PATIENTS WITH PRETERM BIRTH
Irma Lechuga Trejo (MEXICO CITY , Mexico), Laura Gochicoa Rangel, Luis Torre Bousculet

TP-38 Session 130 12:50 - 14:40
Thematic poster: Molecular and cellular determinants of the developing lung
Disease(s) : Airway diseases, Pulmonary vascular diseases
Method(s) : Physiology, Cell and molecular biology
Chairs : Silvia Carraro (Padova (PD), Italy), Miguel Angel Alejandre Alcázar (Köln, Germany), Cho-Ming Chao (Gießen, Germany), Robbert J. Rottier (Rotterdam, Netherlands)

PA1376 Late Breaking Abstract - Systemic IL-26 correlates with improved asthma control in children with allergic sensitization
Melissa Kovach (Stockholm, Sweden), Ulrika Käck, Karlhans Che, Bettina Levänen, Gunnar Lilja, Jon Konradsen, Anders Lindén

PA1377 LSC - 2018 - Impaired angiogenic supportive capacity and altered gene expression profile of CD146+ mesenchymal stromal cells isolated from hyperoxia-injured neonatal rat lungs
Robbert J. Rottier (Rotterdam, Netherlands), Jennifer J.P. Collins, Marissa A. Lithopoulos (mlithopoulos@gmail.com / Ottawa Hospital Research Institute, Ottawa), Claudia C. Dos Santos (dossantos@smh.ca / Keen Research Centre for Lungs, Dresden, Dresden), Caryn Ito (cito@ohri.ca / Ottawa Hospital Research Institute, Ottawa), Shumei Zhong (szhong@ohri.ca / Ottawa Hospital Research Institute, Ottawa), Arul Vadivel (avadivel@ohri.ca / Ottawa Hospital Research Institute, Ottawa), Bernard Thebaud (bthebaud@ohri.ca / Ottawa Hospital Research Institute, Ottawa)
Diversity in mesenchymal lineages during early human lung development
Soula Danopoulos (Los Angeles, United States of America), Soumyaroop Bhattacharya, Matthew Thornton, Brendan Grubbs, Thomas J. Mariani, Denise Al Alam

Krüppel-like factor 4 (Klf4) is a novel regulator of neonatal lung fibroblast homeostasis and reduced in hyperoxia-induced lung injury
Dharmesh Hirani (Köln, Germany), Manuel Koch, Katharina Dinger, Jasmine Mohr, Christina Vohlen, Christian Klautd, Jörg Dötsch, Miguel A. Alejandre Alcazar

Maternal allergen exposure increases offspring sensory airway innervation and airway hyperreactivity in mice
Alexandra Pincus (Portland, United States of America), Allison Fryer, David Jacoby, Katie Lebold

Loss of IL-6 enables lung growth in newborn mice exposed to prolonged hyperoxia
Dharmesh Hirani (Köln, Germany), Katharina Dinger, Jasmine Mohr, Christina Vohlen, Behrus Darvishan, Fabian Klein, Eva Lopez Garcia, Margarete Odenthal, Jörg Dötsch, Miguel A. Alejandre Alcazar

Role of TREM1-Ripk3 axis in hyperoxia induced lung injury in neonates.
Mansoor Ali Syed (New Delhi (Delhi), India), Dilip Shah, Vineet Bhandari

Sox21, a novel player in the proximal-distal specification of airway epithelium
Evelien Eenjes (Netherlands), Marjon Buscop-Van Kempen, Anne Boerema-De Munck, Anneloes Van Krimpen, Lisette De Kreij-De Bruin, Robbert Rottier

Krüppel-like Factor 4 (Klf4) in human and mouse lung development: Regulation of ATII Cell Homeostasis in Lungs of Newborn Mice Exposed to HYX
Jasmine Mohr (Köln, Germany), Manuel Koch, Nikos Oikonomou, Bernhard Schermer, Katharina Dinger, Christina Vohlen, Dharmesh Hirani, Margarete Odenthal, Soula Danopoulos, Jörg Dötsch, Miguel A. Alejandre Alcazar

The role of epithelial Pten in programmed cellular senescence during lung development
Ayako Miura (Miyazaki, Japan), Shigehisa Yanagi, Hironobu Tsubouchi, Ayako Matsuo, Nobuhiro Matsumoto, Masamitsu Nakazato

Effect of inhaled N-acetylcysteine on the oxidative stress and content of proteases in lungs of newborn guinea pigs exposed to hyperoxia
Iryna Katovich (Minsk, Belarus), Zhanna Rutkouskaya, Svetlana Anischenko, Anatoly Tahanovich

Thickening of the airway smooth muscle layer from late gestation to first year of life is accompanied by a reduction in smooth muscle cell density
Kimberley Wang (Southern River, Australia), John Elliot, Sejal Saglani, Peter Noble, Alan James

Zebrafish as a model for study of developmental origins of chronic lung diseases
Susanne Krauss-Etschmann (Borstel, Germany), Mila Ljujic, Mate Varga, Sabine Bartel, Aleksandra Divac Rankov

TP-39 Session 131 12:50 - 14:40

Thematic poster: Respiratory physiology and measurements

Disease(s) : Airway diseases Pulmonary vascular diseases Sleep and breathing disorders Interstitial lung diseases

Method(s) : Cell and molecular biology General respiratory patient care Physiology

Chairs : Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Peter Coss (Dublin 8, Ireland), Monika Franczuk (Warszawa, Poland), Jane Kirkby (Sheffield, United Kingdom)

The multi-ethnic global lung initiative 2012 (GLI-2012) norms reflect contemporary adult's algerian spirometry
Ketfi Abdelbassat (Alger, Algeria), Merzak Gharnaout, Mohamed Bougrida, Helmi Ben Saad

The bronchodilator test in patients with chronic airway obstruction: the responsiveness of lung function parameters
Mikhail Chushkin (Moscow, Russian Federation), Natalia Karpina, Lydia Popova, Elena Shergina, Larisa Kiryukhina, Olga Nenasheva, Oleg Ots

Comparison of COPDGene non-smoking healthy cohort spirometry to NHANESIII
Robert L. Jensen (Salt Lake City, United States of America), Matthew Hegewald, Alan Morris

The underlying cause of type 2 respiratory failure affects NIV adherence
Sara Parsons (Surbiton (Surrey), United Kingdom), Emma Baker

Spirometry success rate in children in pediatric pulmonology outpatient unit
Ana Alice Amaral Ibiapina Parente (Rio De Janeiro (RJ), Brazil), Maria De Fátima March, Clemax Sant’anna, Paula Maia, Priscilla Araújo, Luanda Alleluia
VEF1 and PEF correlation by digital peak expiratory flow and conventional spirometry in children
Ana Alice Amaral Ibiapina Parente (Rio De Janeiro (RJ), Brazil), Maria De Fátima March, Clémax Sant’anna, Paula Maia, Priscilla Araújo, Luanda Alleluia

Does the oximetry sensor manufacturer impact the oxygen saturation readings during a six minute walk test?
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvester, Katrina Oates

Agreement between clinical and non-clinical digital manometer for assessing maximal respiratory pressures in healthy subjects
Homero Puppo (Santiago, Chile), Rodrigo Torres-Castro, Matias Otto-Yáñez, Nicolás Sepúlveda-Cáceres, Rodrigo Garrido-Baquedano, Marisol Barros-Poblete, Luis Vasconcello, Roberto Vera-Uribe, Guillerme Fregonezi

Comparison of methods for interpreting bronchodilator response (BDR) in children
Stephanie Rees (London, United Kingdom), Emma Raywood, Emma Fettes, Aidan Laverty

Comparison of functional residual capacity (FRC) measured by plethysmography (FRCpleth) and multiple breath washout (FRCmbw) in schoolchildren with cystic fibrosis (CF).
Mollie Riley (London, United Kingdom), Emma Raywood, Stephanie Rees, Emma Fettes, Aidan Laverty

Diagnosis of bronchospasm during bronchodilator test in patients with pulmonary tuberculosis by the method of forced oscillations
Elena M Zhukova (Novosibirsk, Russian Federation), Lyudmila Vokhminova

How different are the lung volumes and diffusing capacities of healthy Indians compared to age & gender-matched Europeans?
Shrikant Pawar (Pune (Maharashtra), India), Nitin Vanjare, Shweta Rasam, Vandana Das, Yogesh Thorat, Sushma Jadhav, Sundeep Salvi

A novel technical extension of the Forced Oscillation Technique
Chuong Ngo (Aachen, Germany), Falk Dippel, Sylvia Lehmann, Klaus Tenbrock, Thomas Vollmer, Berno Misgeld, Steffen Leonhardt

X5 values measured on Impulse Oscillometry (IOS) help differentiate healthy, asthmatic, COPD and ILD subjects from one another.
Shrikant Pawar (Pune (Maharashtra), India), Vandana Das, Yogesh Thorat, Nitin Vanjare, Shweta Rasam, Sapna Madas, Rahul Kodgu, Sundeep Salvi

FEV1 and FVC changes at high altitude residents in Kyrgyzstan
Cholponbaeva Meerim (Bishkek, Kyrgyzstan), Melis Dushiobaev, Almazbek Akunov, Kubat Muratali Uulu, Nadira Kushubakova, Zhainagul Kerimbekova, Abdirashit Maripov, Akpay Sarybaev

Evaluation of Respiratory Muscle Strength and Balance in Berardinelli-Seip Congenital Lipodystrophy (BSCL) Patients from Brazil
Julliane Tamara Araújo de Melo Campos (Santa Cruz, Brazil), Jorge Luiz Dantas De Medeiros, Bruno Carneiro Bezerra, Thiago Anderson Brito De Araújo, Thaïze teixeira Xavier Nobre, Lucien Peroni Gualdi, Maria Do Socorro Luna Cruz

Modified test to identify the reversibility of bronchial obstruction in patients with chronic obstructive pulmonary disease
Natalya Sharova (St. Petersburg, Russian Federation), Sergei Grishaev

Spiro-Breath: Application for instant, large-scale interpretation of Pulmonary Functional Test
Daniel-Ross Monserrat Mitchel (Sabadell (Barcelona), Spain), Laura Vigil, Ana Sogo, Angel Azpeitia, Eric Tort, Axel Salmeron, Guillermo Seminario, Christian Domingo

Arterial lactate vs venous lactate as indicator of metabolic limitation during cardiopulmonary exercise testing.
Maria Habes (Bussum, Netherlands), Rachel Salvador, Erica Dijkers, R.P. Van Steenwijk

The results of the modelling of respiratory muscles strength proper values by means of artificial intelligence methods
Ilya Kurpatov (Vladivostok, Russian Federation), Boris Geltser, Carina Shahgeldyan

Session 132  12:50 - 14:40

Thematic poster: Acutely hospitalised patients: physiotherapy interventions and assessment methods

Disease(s) : Respiratory critical care  Thoracic oncology  Pulmonary vascular diseases  Airway diseases  Respiratory infections

Method(s) : Imaging  Public health  Surgery  General respiratory patient care  Respiratory intensive care  Physiology

Chairs : Agnieszka Lewko (London, United Kingdom), Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Gregory Reychler (Bruxelles, Belgium), Chris Burtin (Diepenbeek, Belgium)
Methodological approach to the development of a learning needs assessment tool
David Anekwe (Montreal, Canada), Lynn Gillespie, Sherry Katz, André Bussières, Gregory Moullec, Jadranka Spahija

Safety of cough assist set at different pressure levels in an animal model of mechanical ventilation
Roberto Martinez Alejos (Bordeaux, France), Joan Daniel Marti Romeu, Gianluigi Li Bassi, Xabier Pilar Diaz, Hua Yang, Francesco Pagliara, Denise Battaglini, Andrea Meli, Minlan Yang, Joaquim Bobi, Ana Motos, Antoni Torres

Evaluation of oxidative stress and outcomes of hospitalization for patients on mechanical ventilation
Joao Batista Raposo Mazzullo Filho (Teresina (PI), Brazil), Silvia Bona, Elizangela Schemitt, Fabiano Da Silva, Fabio Di Naso, Luiz Forgiarini Junior, Alexandre Dias, Norma Marroni

Incidence of orotracheal extubation failure in oncological patients.
Ivan Peres Costa (São Paulo (SP), Brazil), Camilla Giovana Agui, Pedro Caruso, Indiara Soares De Oliveira, Celena Freire Friedrich

Interaction between thoracoabdominal motion and neonatal variables in premature infants: A numerical data analysis
Ana Gabriela de Figueiredo Araujo (Santa Cruz, Brazil), Danielle Cristina Gomes, Ingrid Guerra Azevedo, Eduardo Lacerda Campos, Lorena Batista Lourenço, Gentil Fonseca Filho, Simone Ribeiro, Silvana Alves Pereira

Early physiotherapy in the clinical course of patients on Veno-Venous Extracorporeal Membrane Oxygenation.
Andrea Drago (Scandicci (FI), Italy), Manuela Bonizzoli, Chiara Lazzetti, Laura Tadini Boninsegni, Martina Donati, Simona Di Valvasone, Antonio Pesenti, Adriano Peris

Chest physiotherapy for acute lobar/lung collapse in mechanically ventilated children: A UK survey
Elizabeth Johnson (London, United Kingdom), Helen Mercer, Amy Bridge, Emma Shkurka

A survey examining Mechanical Insufflation-Exsufflation use in UK, adult intensive care units.
Ema Swingwood (Monmouthshire, United Kingdom), Lyvonne Tume, Fiona Cramp

The largest occlusion time in maximum inspiratory pressure measurements in patients under mechanical ventilation can determine higher values to those calculated by the predictive formula: cross sectional study?
Rodrigo Tonella (Campinas, Brazil), Mariana Salles, Barbara Silva, Luciana Figueiredo, Aline Heidemann, Melaine Coelho, Antonio Falcão, Ligia Ratti

Perioperative factors associated with postoperative health-related quality of life after surgical treatment in patients with non-small-cell lung cancer.
Masato Oikawa (Nagasaki, Japan), Masatoshi Hanada, Hiroki Nagura, Naoya Yamasaki, Tomoshi Tsuchiya, Keitaro Matsumoto, Takuro Miyazaki, Takeshi Nagayasu, Ryo Kozu

Investigation of the Relationship Between Peak Expiratory Flow, Dyspnea, Functional Capacity, Pain and Fatigue in Patients Undergone Abdominal Surgery
Hazal Yakut (Izmir, Turkey), Umit Akay, Ismail Ozsoy, Didem Karadibak

Effects of breathing exercises in the postoperative period of bariatric surgery.
Tamires Mori (Piracicaba, Brazil), Rodrigo Zerbeto, Silvia Baruki, José Eustáquio Souza-Júnior, Daniela Berteli-Merino, Maura Rocha, Eli Maria Pazzianotto-Forti

Can the Melbourne Scoring Scale be used to assess postoperative pulmonary complications in high-risk patients following lung resection?
Barbara Cristina Brocki (Ålborg SV, Denmark), Elisabeth Westerdahl, Jane Andersen, Jan Jesper Andersen

Upper limbs musculoskeletal repercuSSION after lung resection
Janet Rodrigues Torres (Granada, Spain), Maria Del Mar Lucena Aguilera, Florencio Quero Valenzuela, Laura López López, Irene Torres Sánchez, Ramón Romero Fernández

Investigation of the effects of neuromuscular electrical stimulation in patients with pulmonary arterial hypertension
Buse Ozcan Krahman (Izmir, Turkey), Ismail Ozsoy, Agah Baran, Serap Acar, Ebru Ozpetit, Bahri Akdeniz, Ali Balci, Can Sevinc, Sema Savci

Pre-operative assessment of the relationship between 6MWD and kinesiophobia in coronary revascularization surgery
Reyhan Kaygusuz (Istanbul, Turkey), Saadet Ufuk Yurdalan, Begüm Unlu

Does overweight/obesity influence cardiac autonomic modulation and functional performance in COPD exacerbation?
Audrey Borghi Silva (São Carlos (SP), Brazil), Alessandro Heubel, Erika Kabbach, Aline Agnoletto, Jessica Barbosa, Meliza Roscani, Valéria Pires-Di-Lorenzo, Renata Mendes
### Thematic poster: Chronic lung disease: effects of rehabilitation interventions on functional outcomes in patients

**Disease(s):**
- Airway diseases
- Sleep and breathing disorders
- Interstitial lung diseases
- Respiratory infections
- Respiratory critical care
- Pulmonary vascular diseases
- Respiratory infections

**Method(s):**
- Epidemiology
- Respiratory intensive care
- Physiology
- Transplantation
- General respiratory patient care
- Public health

**Chairs:**
- Joana Patricia Santos Cruz (Albergaria-a-Velha, Portugal)
- Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil)
- Alda Sofia Pires De Dias Marques (Aveiro, Portugal)
- Clancy Dennis (Canberra (ACT), Australia)

#### Comparison of sit-to-stand test and six-minute walk test in asthmatic and healthy children

Aylin Tanrıverdi (Izmir, Turkey), Buse Ozcan Kahraman, Ismail Ozsoy, Karya Polat, Aslı Papurcu, Nazenin Hande Sezgin, Serap Acar, Güzem Atakul, Nevin Uzuner, Suna Asılsoy, Özkan Karaman, Sema Savcı

#### The minimal important difference for the 1-minute sit-to-stand test following pulmonary rehabilitation in patients with COPD – a prospective observational trial

Tessa Schneeberger (Schönau am Königssee, Germany), Rainer Gloeckl, Inga Jarosch, Franziska Drechsel, Andreas Rembert Koczulla, Klaus Kenn

#### Comparison between six minutes walking test and three minutes step test in COPD patients

Marc Beaumont (MORLAIX, France), Antoine Losq, Loïc Péran, Catherine Le Ber, Gregory Reyecher

#### Predictive equation for the unsupported upper limb exercise test (UULEX) in healthy adults

Alda Sofia Pires De Dias Marques (Aveiro, Portugal), PatriCia Rebelo, Cátia Paixão, Sara Almeida, Ana Luisa Araújo Oliveira

#### Reference values for the walking distance on the six-minute walk test in healthy children aged from 7 to 12 years in Brazil: The feóminbrasil multicentric study

Lucas De Assis Pereira Cacau (Araçaju (SE), Brazil), Vitor Carvalho, Alessandro Pin, Carlos Daniel, Daisy Yked, Eliane Carvalho, Juliana Francica, Luiza Faria, Mansueto Gomes-Neto, Marcelo Fernandes, Marcelo Velloso, Marlus Karsten, PatriCia Barros, Valter Santana-Filho

#### Characteristic of four exercise tests in patients with idiopathic pulmonary fibrosis

Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Yasuhiro Kondoh, Tomoki Kimura, Kensuke Kataoka, Tomoya Ogawa, Fumiko Watanabe, Yuichi Tawara

#### Glittre-ADL performance with and without a backpack

Liliane Mendes (Belo Horizonte (MG), Brazil), Lissa Spencer, Bill Zafiroopoulos, Veronica Parreira, Jennifer Alison

#### Glittre-ADL test performed in 3 laps as an alternative to the 5 laps test

Liliane Mendes (Belo Horizonte (MG), Brazil), Lissa Spencer, Bill Zafiroopoulos, Veronica Parreira, Jennifer Alison

#### Intra- and interrater reproducibility of 6-minute walk test in patients with severe and very severe COPD

Henrik Hansen (Dragør, Denmark), Nina Beyer, Anne Frolich, Nina Godtfredsen, Theresa Bieler

#### Intra- and interrater reproducibility of 30-seconds sit-to-stand test in patients with severe and very severe COPD

Henrik Hansen (Dragør, Denmark), Nina Beyer, Anne Frolich, Nina Godtfredsen, Theresa Bieler

#### The immediate effects of core stabilization exercise on pulmonary parameters

Elif Develi (istanbul, Turkey), Guzin Kaya Aytutulu, Ayça Yagcıoğlu, Mehmet Alperen Pekdas, Rasmi Muammer, Arzu Osdıncır

#### Upper extremity aerobic exercise training improves exercise capacity in stem cell recipients

Gülşah Barğı (Ankara, Turkey), Meral Boşnak Gölçlü, ZüZeynur oğuzkurt, Müngi Yaşcı

#### Upper extremity aerobic exercise training improves peak oxygen consumption in patients with pulmonary arterial hypertension

Burcu Camcığlu (Ankara, Turkey), Meral Boşnak Gölçlü, Müşerrefe Nur Keleş, Gültan Aydoğdu Taçoğlu, Atiye Çengel

#### COPD pulmonary rehabilitation - good enough for ILD patients?

Jacqui Pollington, Kate Martin, Gail Miles, Tracy Ward
The effects of aerobic training on respiratory muscle strength and exercise capacity in ankylosing spondylitis patients
Ayşenur Yılmaz (Denizli, Turkey), Harun Taskin, Orcin Telli Atalay, Mine Pekesen Kurtea, Elif Gür Kabul, Bilge Başakeçi Çalık, Ali Yalman, Murat Yigit, Murat Taseci, Veli Cobankara

Effect of upper extremity strength training on functional arm and submaximal exercise capacity, fatigue severity and health-related quality of life in patients with chronic obstructive pulmonary disease
Ebru Çalık Kütküçü (Ankara, Turkey), Hulya Arıkan, Deniz İnal-Ince, Melda Sağlam, Naciye Vardar-Yaglı, Cigdem Oksuz, Tulin Duger, Sema Savcı, Lutfi Coplu

Effects of eight weeks long supervised exercise training on exercise capacity and pulmonary function in patients after coronary artery bypass surgery
Semiramin Özilmiş (İstanbul, Turkey), Hulya Nilgun Gurses, Melih Zeren, Gurkan Çetin

Effect of exercise on functional capacity and quality of life in scoliosis cases
Cansu Varol (İstanbul, Turkey), Eren Timurtas, Mine Gulden Polat

TP-42 Session 134 12:50 - 14:40

Thematic poster: Chronic respiratory disease: respiratory muscle function, breathing exercises and airway clearance techniques

- Airway diseases
- Respiratory critical care
- Sleep and breathing disorders
- Thoracic oncology
- Respiratory infections

Method(s): Epidemiology  Physiology  Public health  Respiratory intensive care  General respiratory patient care

Chairs: Rachael A. Evans (Market Harborough (Leicestershire), United Kingdom), Kathleen Grant (Lausanne, Switzerland), Carlos Augusto Marcal Camillo (Londrina (PR), Brazil), Rik Gosselink (Leuven, Belgium)

Late Breaking Abstract - Primary care providers’ fidelity to a brief asthma shared decision-making intervention
Maureen George (New York, United States of America), Allison A. Norful, Annie Chung, Jean-Marie Bruzzese, Michael V. Pantaloon

The effects of functional inspiratory muscle training in geriatric individuals with and without chronic obstructive pulmonary disease
Buse Özcan Kahrman (İzmir, Turkey), İsmail Ozsoy, Gulsah Özsoy, Nursen Ilcin, Nil Tekin, Sema Savcı

Effects of inspiratory muscle training on cardiac autonomic control
Raphael Martins Abreu (bauru, Brazil), Patricia Rehder-Santos, Étore Signini, Camila Sakaguchi, Cláudio Silva, Carla Dato, Aparecida Catái

The effect of breathing exercises on Sleep Quality during Pregnancy among Primigravida.
amrit kaur (Nashik (Maharashtra), India), Mahesh Mitra

Effect of expiratory muscle strength training on cough and swallowing in patients with dysphagia following stroke
Yuichi Tawara (Hamamatsu, Japan), Ichiro Fujishima, Norimasa Katagiri, Shinichir Arizono, Shouhei Ohgi, Ryo Kozu

Pursed lips breathing can improve desaturation during flying disc game in COPD patients.
Kyoosuke Imashiro (Wakayama city, Japan), Yoshiaki Minakata, Atsushi Hayata, Masanori Nakanishi, Yoshihiro Kamijo, Takahiro Ogawa, Yumi Koike, Nobuyuki Yamamoto

Adam Lewis (Enfield, United Kingdom), Phoebe Cave, Nicholas S. Hopkinson

Respiratory muscle strength, respiratory muscle endurance, functional capacity and cognitive status in lung cancer patients
Ebru Çalık Kütküçü (Ankara, Turkey), Kubra Kilic, Naciye Vardar-Yaglı, Melda Sağlam, Deniz İnal-Ince, Hulya Arıkan, Saadettin Kilickap

Maximal respiratory pressures are associated to symptomatic pelvic organ prolapse in middle-aged and older women: an epidemiological study in Northeast Brazil
Ingrid Guerra Azevedo (Natal (RN), Brazil), Silvana Sousa, Elizabel Viana, Diego Dantas, álvaro Maciel, Saionara CâMara

Electromyographic and measurement of maximum expiratory pressure in neurological patients: prospective study
Rodrigo Tonella (Campinas, Brazil), Ila Velludo, Jessica Nascimento, Gabriela Nahas, Aline Heidemann, Luciana Figueiredo, Antonio Falcao, Lidiane Souza, Daniela Faez

The effect of high-frequency oscillatory vibration on peak expiratory flow generated by a MI-E cough assist device in a mechanical lung model
Yaakov (Kobi) Dagan (Ramat-Hasaron, Israel), Michael J. Segel, Eli Carmeli
Does Pseudomonas aeruginosa infection alter sputum viscoelastic properties in bronchiectasis patients?
Victoria Alcaraz Serrano (Barcelona, Spain), Jean Llorens-Llacuna, Elena Gimeno-Santos, Albert Gabarrús, Beatriz Herrera-Cortina, Edmundo Rosales-Mayor, Laia Fernández-Barat, Eva Polverino, Rosanel Amaro-Rodriguez, Antoni Torres-Martí

Flows and volumes during Mechanical Insufflation-Exsufflation in a pediatric lung model
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Ove Fondenens, Vegard Hovland

Short-term effects of respiratory physiotherapy in infants with bronchiolitis and outpatient care: A multicentre study
Rodrigo Torres-Castro (Santiago, Chile), Vanesa Gonzalez Bellido, María Torrente Regidor, José Luis Arias Buría, María del Carmen Jimeno Esteo, Rubén García Caraballo, Verónica Velaz Baza

High-frequency chest wall compression in mild and moderate bronchiolitis: a clinical trial
Rodrigo Torres-Castro (Santiago, Chile), Vanesa Gonzalez Bellido, Verónica Velaz Baza, María Torrente Regidor, César Fernández-De-Las-Peñas, José Luis Arias-Buría

Comparison of the effects of comprehensive chest physiotherapy alone and combined with inspiratory muscle training in children with cystic fibrosis
Melih Zeren (İstanbul, Turkey), Hulya Nilgun Gurses, Erkan Cakir

Thematic poster: Chronic respiratory disease: determinants of physical activity in patients

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<th>Disease(s)</th>
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<td>Airway diseases</td>
<td>Public health, Transplantation, General respiratory patient care</td>
<td>Jordi Vilaro Casamitjana (Barcelona, Spain), Andre Nyberg (Umeå, Sweden), Maria Kouloupolou (London, United Kingdom), Jana De Brandt (Diepenbeek, Belgium)</td>
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Physical activity and clinical outcomes in patients with interstitial lung disease: how large is the impairment? – Preliminary results
Humberto Silva (Londrina, Brazil), Wagner F Aguiar, Aline F L Goncalves, Thatielle G Silva, Walter A S Loyola, Paulo S Pereira, Vanessa S Probst, Fabio Pitta, Carlos A Camillo

Validation of the rapid assessment of physical activity questionnaire (RAPA) in COPD patients
Ridvan Aktan (balcova (izmir), Turkey), Sevgi Ozalevli, Gamze Yalcinkaya, Aylin Ozgen Alpaydin, Can Sevin

Exercise capacity, physical activity, quality of life in newly diagnosed hematologic malignancies
Zeliha Celik (Ankara, Turkey), Meral Boşnak Güçlü, Züleyse Nur Özkurt

Determinants of physical inactivity in hematopoietic stem cells recipients
Gülşah Barğı (Ankara, Turkey), Meral Boşnak Güçlü, Züleyse Nur Özkurt, Müneci Yaşcı

Physical activity levels of children with cystic fibrosis and their parents: Pilot study
Cigdem Emirza (İstanbul, Turkey), Gokşen Kuran Aslan, Ayşe Ayzit Atabek, Haluk Cokugras

Relationship between sessions in addition to exercise training and improvements in quality of life and physical activity in COPD: Preliminary results.
Ana Carolina Dos Reis Andrello (Londrina, Brazil), Ana Carolina Andrello, Leticia F Belo, Lorena P Schneider, Thais R Paes, Nidia A Hernandes, Fabio Pitta

Assessment of sleep quality in children with asthma
Meltem Ramoglu (İstanbul, Turkey), Hikmet Uçgun, Zeynep Hosbay

Correlations between two instruments measuring sleep quality in patients with ILD: Preliminary results
Wagner F Aguiar (Londrina, Brazil), Humberto Silva, Thatielle G Silva, Aline F L Gonçalves, Jéssica Fonseca, Walter A Sepúlveda, Paulo S Pereira, Vanessa S Probst, Fabio Pitta, Carlo A Camillo

The effects of smoking on pain threshold and pain tolerance
Yasin Ekinci (Ankara, Turkey), Esra Atış Numanoğlu, Oznur Tunca Yılmaz, İpek Alenderoglu, Ayse Karaduman, Cigdem Oksuz

The effect of kinesiophobia in pulmonary hypertension
Ozge Ertan (İstanbul, Turkey), Gokşen Kuran Aslan, Buket Akinci, Nigar Gulfer Okumus

Determination and comparison of fatigue in obstructive pulmonary diseases
Seda Saka (İstanbul, Turkey), Ebru CaliK Kutukcu, Ozge Ozalp, Deniz İnal Ince, Melda Saglam, Naciye Vardar Yaglı, Meral Bosnak Guclu, Hulya Arikan, Lutfi Coplu, Sema Savci
PA1477 Continence Assessment in Paediatric Patients with Primary Ciliary Dyskinesia
Amanda Harris (Southampton (Hampshire), United Kingdom), Victoria Keenan, Hannah Wilkins, Amanda Friend

PA1478 Do cancer treatments affect pain perception?
Ebru Çalış Kütükcü (Ankara, Turkey), Kubra Kilic, Naciye Vardar-Yağlı, Melda Saglam, Deniz Inal-Ince, Hulya Arikan, Saadettin Kilic kap

PA1479 Investigation of associations between functional performance, physical activity level and sleep quality in adults with Down’s Syndrome
Meltem Ramoglu (İstanbul, Turkey), Hikmet Ucgun, Ertugrul Safran, H. Nilgun Gurtes

PA1480 Comparison of Respiratory Muscle Strength, Kinesiophobia and Fatigue Perception in Patients with Liver Transplantation and Healthy Subjects
Naciye Vardar Yagli (Ankara, Turkey), Bilge Taskim, Ebru Calik Kutukcu, Melda Saglam, Deniz Inal-Ince, Hulya Arikan, Ahmet Bulent Doğrul

PA1481 Relationship between maximal exercise capacity and activities of daily living in patients with GOLD stage II-III chronic obstructive pulmonary disease

PA1482 The relationship between six minutes walking work, respiratory parameters and activities of daily life in patients with interstitial lung disease
Ozge Ertan (İstanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Pinar Odevoglu, Melike Saritas, Nigar Gulfer Okumus

PA1483 Comparison of fatigue, exercise capacity, physical activity, and quality of life in asthmatic patients with low and high symptom scores
Naciye Vardar Yagli (Ankara, Turkey), Hazal Sonbahar Ulu, Deniz Inal Ince, Asilhan Cakmak, Cemile Bozdemir-Ozol, Melda Saglam, Ebru Calik Kutukcu, Hulya Arikan, Gul Karakaya, Ali Fuat Kalyoncu

PA1484 Relationship between disease knowledge and functional perception in COPD patients and their caregivers.
Ramón Romero Fernández (Granada, Spain), Tomás Muñoz Casaubón, Janet Remedios Rodríguez Torres, Maria Del Mar Lucena Aguiler, Laura López López, Irene Torres Sánchez

TP-44 Session 136 12:50 - 14:40

Thematic poster: Chronic respiratory disease: effects of rehabilitation interventions in patients

Disease(s): Sleep and breathing disorders Airway diseases Respiratory infections Interstitial lung diseases Respiratory critical care

Method(s): Transplantation Public health Imaging Respiratory intensive care Surgery General respiratory patient care

Chairs: Melda Saglam (Ankara, Turkey), Shakila Devi Perumal (Dunlaoghaire (Co Dublin), United Kingdom), Deniz Inal-Ince (Ankara, Turkey), Cristina Isabel Oliveira Jácome (Viatodos, Portugal)

PA1485 Stem cell recipients versus healthy subjects regarding exercise tolerance and muscle strength
Gülşah Barğı (Ankara, Turkey), Meral Boşnak Güçlü, Gülşan Türköz Sukuc

PA1486 A network analysis of clinical characteristics of patients with COPD: partial results.
Antenor Rodrigues (Londrina (PR), Brazil), Carlos Augusto Camillo, Pedro Cerqueira, Felipe Vilaça Cavalarí Machado, Leticia Belo, Lorena Paltain Schneider, Jessica Fonseca, Thais Paes, Nidia Aparecida Hernandez, Fabio Pitta

PA1487 The reaction time and exercise tolerance in patients with cystic fibrosis and healthy controls
Jan Dik (Ankara, Turkey), Melda Sağlam, Naciye Vardar Yagli, Cemile Bozdemir Ozel, Ebru Calik Kutukcu, Deniz Inal Ince, Haluk Tekerlek, Hulya Arikan, Sanem Esref, Deniz Dogru Ersoz

PA1488 Predictors of exercise-induced oxygen desaturation in subjects with chronic obstructive pulmonary disease
Andrea Akemi Morita (Londrina (PR), Brazil), Felipe Machado, Antenor Rodrigues, Lorena Schneider, Nidia Hernandez, Fabio Pitta, Vanessa Probst

PA1489 Relationship between family function and exercise capacity and inspiratory muscle strength in COPD
Cátia Filipa Pinto da Paixão (Guarda, Portugal), Patricia Rebelo, Ana Oliveira, Cristina Jácome, Joana Cruz, Célia Freitas, Helena Loureiro, Marília Rua, Pedro Ferreira, Alda Marques

PA1490 Sex differences in COPD patients users of long-term oxygen therapy
Silvia Regina Valderramas (Curitiba (PR), Brazil), Camila Mazzarin, Demetria Kovelis, Samia Kalil Biazim

PA1491 Quality of life and exercise capacity in patients with primary ciliary dyskinesia
Merve Fırat (Ankara, Turkey), Meral Boşnak Güçlü, Tuğba Şışmanlar Eyüboğlu, Ayşe Tana Aslan
Arterial stiffness, hemodynamic and functional profile at exacerbation and recovery in COPD
Renata Mendes (Sao Carlos (SP), Brazil), Aline Agnoletto, Alessandro Heubel, Erika Kabbach, Audrey Borghi-Silva, Shane Phillips, Valéria Pires Di Lorenzo, Meliza Roscani, Rodrigo Jaenisch

Triangulated perspectives on outcomes used in pulmonary rehabilitation of patients with COPD
Sara Souto de Miranda (Aveiro, Portugal), Alda Marques

Why are COPD patients unable to complete the outpatient pulmonary rehabilitation program?
Ilknur Naz (Izmir, Turkey), Hulya Sahin

Assessing caregiving experience in COPD: content validity of the Zarit Burden Interview
Joana Patricia Santos Cruz (Albergaria-a-Velha, Portugal), Alda Marques, Sara Miranda, Roger Goldstein, Dina Brooks

Interacting with primary care – experiences of patients with COPD. A qualitative study
Sara Lundell (Umeå, Sweden), Karin Wadell, Maria Wiklund, Malin Tistad

The effect of nutritional support on pulmonary rehabilitation outcomes in COPD patients with low body mass index
Ilknur Naz (Izmir, Turkey), Hulya Sahin

Physical function performance and recovery of patients undergoing abdominal surgery in relation to post-operative complications–A prospective real world study.
Mary Flahive (Limerick, Ireland), James O Driscoll, Julie Broderick

Are paper-based forms and telephone interview equivalent modes of administration for the Control of Allergic Rhinitis and Asthma Test (CARAT)?
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rui Guedes, Rute Almeida, Filipa Lopes, Ana Margarida Pereira, Luis Araújo, Mariana Couto, Mariana Pereira, Cristina Lopes, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Ana Paula Aguiar, Ivete Afonso, Alberto Costa, Armandina Silva Neto, Marta Santalha, João Almeida Fonseca

Presence of adventitious lung sounds (LS) differ between spontaneous and standardized breathing
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Juan Carlos Aviles-Solis, Ashild Myrnes Uhre, Hans Pasterkamp, Hasse Melbye

Regional lung ventilation and its distribution in patients with stroke-induced hemiparesis in sitting position
Shirley Campos (Recife (PE), Brazil), Catarina Rattes, Wagner Leite, Thiago Gonçalves, Caio Morais, Daniella Brandão, Armele Dornelas De Andrade

The structure and characteristics of hospital-based programs for COPD: a scoping review
Loretta Mccormick (Cambridge (ON), Canada), Carol Wong, Mickey Kerr, Yolanda Babenko-Mould

Contemporary tracheostomy clinical management in respiratory wards: A continuous quality improvement program
Chun Kit Lo (Hong Kong, Hong Kong), Yik Fan Chan, Ming Wah Choi, Pui Fan Chan, Yuen Yee Chan, Chung Leung Poon, Chung Ming Chu

The role of a nurse active listening and counseling skills are imperative orientation toward patient
Aleksandra Trupkovic (Duga Resa, Croatia), Andreja Sajnic, Tanja Zovko, Kristina Vugler, Vida John

Does lung transplantation affect on the improvement of psychological status in patients with adult cystic fibrosis?
Ivana Lalic (Zagreb, Croatia), Andrea Vukic-Dugac, Tanja Zovko, Andreja Sajnic, Vida John, Ana Mustac, Milica Tepavac, Dorian Tjesic-Drinkovic, Duska Tjesic-Drinkovic, Miroslav Samarzija

Anxiety and depression in adult patients with cystic fibrosis in Croatia: results from adult CF centre
Ivana Lalic (Zagreb, Croatia), Andrea Vukic-Dugac, Tanja Zovko, Andreja Sajnic, Vida John, Ana Mustac, Milica Tepavac, Dorian Tjesic-Drinkovic, Duska Tjesic-Drinkovic, Miroslav Samarzija

Obstructive sleep apnea and specific cardiovascular outcomes
Andreja Sajnic (Zagreb, Croatia), Aleksandra Trupkovic, Tanja Zovko, Sandra Karabatic, Ivana Lalic, Miroslav Samarzija
**Session 138** 13:00 - 14:30

**Lunchtime session: Advances in idiopathic pulmonary fibrosis treatment, tracheobronchial reconstruction using bioengineering and clinical prediction rules for diagnosing pulmonary embolism**

A joint ERS/JAMA lunchtime session

**Aims:** (i) To review the current treatments for idiopathic pulmonary fibrosis (IPF), with a particular focus on a novel treatment that was recently reported in the Journal of the American Medical Association (JAMA); (ii) to review the current approaches to tracheobronchial reconstruction in thoracic surgical oncology, with particular attention to a novel approach that was recently reported in JAMA; and (iii) to review the clinical prediction rules that are used to evaluate patients who present with symptoms or signs that are suggestive of pulmonary embolism, with a particular focus on the relevant randomised clinical trial evidence that was recently reported in JAMA.

**Disease(s):** Intermittent lung diseases  Thoracic oncology

**Method(s):** General respiratory patient care  Surgery  Transplantation

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
### 7.3Z1 Session 139 13:00 - 14:30

**Championship: Respiratory championship**

**Become a champion in respiratory medicine**

**Aims:** to watch four teams compete in a state-of-the-art review of the major fields of respiratory medicine. The audience will be able to participate as well by answering the questions with their mobile devices.

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Student, Trainee

**Chairs:** Konrad E. Bloch (Zurich, Switzerland), Thomas Brack (Glarus, Switzerland)

<table>
<thead>
<tr>
<th>Introduction</th>
<th>Konrad E. Bloch (Zurich, Switzerland), Thomas Brack (Glarus, Switzerland)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airel Tower</td>
<td>Marion Ferreira (La Riche, France), Maeva Zysman (Montreuil, France), Simon Valentin (Nancy, France)</td>
</tr>
<tr>
<td>Aeropassion</td>
<td>Ana-Maria Zaharie (Bucarest, Romania), Valentin Caius Cosei (Bucuresti (Sector 3), Romania), Andrei Lesan (Cluj (Cluj Napoca), Romania)</td>
</tr>
<tr>
<td>The Wonderpuls</td>
<td>Rottem Kuint (Jerusalem, Israel), Lilach Israeli-Shani (Tel Aviv, Israel), Ori Wand (Kfar Sava, Israel)</td>
</tr>
<tr>
<td>BREATTHCON2</td>
<td>Tiago Alfaro (Coimbra, Portugal), Paulo Miguel Sotto Mayor Moreira De Matos (Braga, Portugal), Pedro Gonçalo De Silva Ferreira (Coimbra, Portugal)</td>
</tr>
</tbody>
</table>

### 7.3B Session 140 13:00 - 14:15

**Assembly members' meeting: Assembly 4 Clinical physiology and sleep**

**Chairs:** Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris Cedex 13, France)

### 7.3K Session 141 13:00 - 14:15

**Assembly members' meeting: Assembly 2 Respiratory intensive care**

**Chairs:** Raffaele Scala (Arezzo, Italy), Leo M.A. Heunks (Amsterdam, Netherlands)

### 7.3Q Session 142 13:00 - 14:15

**Assembly members' meeting: Assembly 10 Respiratory infections**

**Chairs:** Graham H. Bothamley (London, United Kingdom), Eva Polverino (Barcelona, Spain)

### 7.3M Session 143 13:00 - 14:15

**Assembly members' meeting: Assembly 8 Thoracic surgery and transplantation**

**Chairs:** Stefano Elia (Roma (RM), Italy), Federica Meloni (Pavia (PV), Italy)

### 7.3O Session 144 13:00 - 14:15

**Assembly members' meeting: Assembly 12 Interstitial lung diseases**

**Chairs:** Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece)

### 7.3P Session 145 13:00 - 14:15

**Assembly members' meeting: Assembly 11 Thoracic oncology**
7.2B  Session 146  13:00 - 14:15

Lungs on fire: Interstitial Lung Diseases & Respiratory Infections

**Aims:**
- Study real challenging clinical cases
- Learn and exchange ideas with a panel of respiratory experts
- Discuss the various diagnosis and treatment options

**Disease(s):** Interstitial lung diseases, Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Critical/Intensive care physician, Paediatrician, Thoracic oncologist, Nurse, Radiologist, Trainee

**Chairs:** Vincent Cottin (Lyon, France), António Morais (Maia, Portugal), Luca Richeldi (Roma, Italy), Bruno Crestani (Paris, France)

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**Session facilitator introduction**
Pierre-Régis Burgel (Sorbonne Paris Cité, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Case</th>
<th>Author</th>
<th>Location</th>
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<tbody>
<tr>
<td>1530</td>
<td>Case 1</td>
<td>S. Yamawaki</td>
<td>Tokyo, Japan</td>
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<td>1531</td>
<td>Case 2</td>
<td>A. Shiroshita</td>
<td>Kamogawa, Japan</td>
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<td>1532</td>
<td>Case 3</td>
<td>J-B. Duquenne</td>
<td>Liège, Belgium</td>
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<td>1533</td>
<td>Case 4</td>
<td>C. Debrus</td>
<td>Luxembourg, Luxembourg</td>
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<td>1535</td>
<td>Case 5</td>
<td>A. He imovi</td>
<td>Zagreb, Croatia</td>
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7.3J  Session 148  13:00 - 14:15

Assembly members' meeting: Assembly 13 Pulmonary vascular diseases

**Chairs:** Marion Delcroix (Leuven, Belgium), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

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7.3A  Session 164  14:45 - 16:45

Year in review: Paediatric Year in Review

**Aims:** The audience will be updated in four topics in paediatric respiratory medicine. The most recent and significant literature and developments relating to these topics will be highlighted.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Cell and molecular biology, Epidemiology, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Jonathan Grigg (London, United Kingdom), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>14:45</td>
<td>What's new in cystic fibrosis?</td>
<td>Ian Balfour-Lynn</td>
<td>London, United Kingdom</td>
</tr>
<tr>
<td>15:15</td>
<td>What's new in paediatric asthma?</td>
<td>Stanley J. Szefler</td>
<td>Aurora, United States of America</td>
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<tr>
<td>15:45</td>
<td>What's new in neonatology?</td>
<td>Irwin K. M. Reiss</td>
<td>Rotterdam, Netherlands</td>
</tr>
<tr>
<td>16:15</td>
<td>What can we learn from paediatric cohort studies?</td>
<td>Claudia E. Kuehni</td>
<td>Bern, Switzerland</td>
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</tbody>
</table>
Symposium: State of the art session: Sleep and breathing disorders

**Dyspnoea, brain and sleep disorders**

**Aims:** Breathlessness debilitates millions of people with chronic illness and is an “all-consuming and life-changing” experience that is subjective and intensely personal and associates with profound fear. It is the primary symptom in chronic obstructive pulmonary disease (COPD). The severity of breathlessness is frequently discordant with airway pathophysiology. Obstructive sleep apnoea (OSA) is a disorder of breathing during sleep that temporarily reduces cerebral oxygenation and disrupts sleep. A growing body of research shows that OSA associates with a relatively consistent pattern of deficits in cognition, particularly in attention, episodic memory and executive function. These deficits can be partially remediated by treatment. Despite a number of competing hypotheses that explain how OSA affects cognition, reliable evidence is hard to find. This may relate to the many conditions that are commonly comorbid with OSA or to the methodological challenges in this field. This state of the art session will elucidate the intimate relationship between the brain and the breathing “disorders” in chronic respiratory conditions.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Imaging, Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Physiologist, Scientist (basic, translational), Student, Adult pulmonologist/Clinician

**Chairs:** Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris Cedex 13, France)

- **14:45** Clinical dyspnoea: brain mechanisms and their clinical impact on brain functions
  - Thomas Similowski (Paris Cedex 13, France)

- **15:15** Treating breathlessness via the brain
  - Andreas von Leupoldt (Leuven, Belgium)

- **15:45** OSA and cognition
  - ivana Rosenzweig (London, United Kingdom)

- **16:15** Hypoxia, arousals, breathing effort: a roadmap to comorbidities?
  - Silke Ryan (Dublin 14, Ireland)

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**Symposium: Current and evolving tests in lung function: pro/con debate**

**Aims:** to stage pro and con debates that will challenge our perceptions of current and evolving tests in lung function assessment. Three pro and con debates, each involving two speakers, will be presented. In each debate, the speakers will each deliver a sharp 12 minute presentation and there will be a 10 minute open discussion after both speakers have spoken. Thereafter, an update on the Global Lung Function Initiative (GLI) will be provided.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Irene Steenbruggen (Zwolle, Netherlands), Nicolas Roche (Paris, France)

- **14:45** FEV1 is helpful in respiratory medicine - pro
  - Roberto Rodriguez Roisin (Barcelona, Spain)

- **15:02** FEV1 is helpful in respiratory medicine - con
  - Omar S. Usmani (London, United Kingdom)

- **15:19** Forced oscillation technique is ready for screening respiratory disease - pro
  - Ronald Dandurand (Beaconsfield (QC), Canada)

- **15:36** Forced oscillation technique is ready for screening respiratory disease - con
  - Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom)

- **15:53** Multiple breath washout technique is a helpful clinical tool for assessing respiratory disease - pro
  - Bruce Thompson (Melbourne, Australia)

- **16:10** Multiple breath washout technique is a helpful clinical tool for assessing respiratory disease - con
  - Philipp Latzin (Bern, Switzerland)

- **16:27** Current challenges and future directions of the Global Lung function Initiative (GLI)
  - Brendan Cooper (Edgbaston (Birmingham), United Kingdom)
### 7.1B  Session 168  14:45 - 16:45

**Symposium: Air pollution and transplantation: near to one's heart and lungs!**

**Aims:** This session highlights recent findings regarding air pollution and its detrimental effects on lung transplant recipients world-wide.

**Tag(s):** Translational

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Patient, Policy maker, Scientist (basic, translational), Student, Adult pulmonologist/ Clinician

**Chairs:** Bart Vanaudenaerde (Leuven, Belgium), Christophe Pison (Grenoble, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>14:45</td>
<td>Linking ambient particulate matter pollution effects with oxidative biology and immune responses</td>
<td>Frank J. Kelly (London, United Kingdom)</td>
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<tr>
<td>15:15</td>
<td>Epidemiological evidence for air pollution being a risk factor for transplant failure</td>
<td>Paul Cullinan (London, United Kingdom)</td>
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<tr>
<td>15:45</td>
<td>Air pollution and Respiratory health: epidemiological evidences and clinical implications</td>
<td>Valerie Siroux (La Tronche, France)</td>
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<tr>
<td>16:15</td>
<td>Panel discussion</td>
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### 7.3C  Session 169  14:45 - 16:45

**Symposium: Interstitial lung disease: an interdisciplinary approach**

**Aims:** to show how a person-centred integrated approach to the management of idiopathic pulmonary fibrosis (IPF) is fundamental to delivering high quality care to adults with IPF. Specific aims are as follows: to demonstrate the impact of the specialised nurse on the quality of care delivered to patients with interstitial lung disease (ILD); to describe the association between patient education and quality of life; to discuss, using IPF case examples, the complexity of ILD and the challenges faced in providing individualised care across the disease trajectory, including access to palliative care; and to provide an update on contemporary measures that are used to optimise patient outcomes.

**Disease(s):** Interstitial lung diseases

**Method(s):** General respiratory patient care

**Tag(s):** Translational

**Target audience:** General practitioner, Nurse, Physiologist, Physiotherapist, Adult pulmonologist / Clinician

**Chairs:** Michael Kreuter (Heidelberg, Germany), Wim A Wuyts (Rotselaar, Belgium), Katleen Leceuvre (KESSEL-LO, Belgium)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:45</td>
<td>Perspectives on managing an ILD patient</td>
<td>Luca Richeldi (Roma, Italy)</td>
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<td>15:12</td>
<td>Patient testimonial</td>
<td>Klaus Geissler (Bietigheim-Bissingen, Germany)</td>
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<tr>
<td>15:24</td>
<td>The ILD-nurse putting the focus on the patient: PROMs and PREMs</td>
<td>Anne-Marie Russell (London, United Kingdom)</td>
</tr>
<tr>
<td>15:51</td>
<td>Pulmonary rehabilitation in IPF</td>
<td>Rainer Gloeckl (Schonau am Koenigssee, Germany)</td>
</tr>
<tr>
<td>16:18</td>
<td>Palliative care for patients with ILD - the need for state-of-the-art knowledge</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
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### 7.3Z1  Session 170  14:45 - 16:45

**Symposium: Management of pleural infection in 2018**

**Pleural infection**

**Aims:** to highlight the increasing incidence of pleural infection across all age groups; to identify validated prognostic scores at presentation and those at highest risk of mortality; to discuss the best radiological investigations in this setting; to summarise the best way of managing medically and surgically these patients; to identify the microbiological spectrum or the disease and best antimicrobials to treat these infections; to summarise the best way to manage paediatric pleural infection.

**Disease(s):** Respiratory infections, Paediatric respiratory diseases

**Method(s):** Imaging, Surgery

**Tag(s):** Clinical

**Target audience:** Nurse, Paediatrician, Radiologist, Student, Thoracic surgeon, Trainee, Adult pulmonologist / Clinician
7.3B
Session 171 14:45 - 16:45

Oral presentation: Best abstracts in pulmonary rehabilitation and chronic care

Disease(s): Airway diseases

Method(s): Physiology  Cell and molecular biology  General respiratory patient care

Chairs: Frits M.E. Franssen (Horn, Netherlands), Guido Vagheggini (Volterra (PI), Italy)

OA1618 Early pulmonary rehabilitation after acute exacerbation of COPD
Jakob Lyngby Kjaergaard (Brønshøj, Denmark), Carsten B. Juhl, Mette Rosenberg, Hanne Rohde, Henny Riber, Linda Poulsen, Torgny Wilcke

OA1619 Exercise improves physical activity and comorbidities in obese adults with asthma
Patricia Duarte Freitas (São Paulo (SP), Brazil), Aline G Silva, Palmira G Ferreira, Analuci Da Silva, João M Salge, Regina M Carvalho-Pinto, Alberto Cukier, Claudia M Brito, Márcio C Mancini, Celso R F Carvalho

OA1620 Effectiveness of Pulmonary Rehabilitation for Patients with Asthma: EPRA-RCT
Konrad Schultz (Bad Reichenhall, Germany), Michael Wittmann, Rupert Wagner, Nicola Lebert, Larissa Schwarzkopf, Boglaka Szentes, Dennis Nowak, Hermann Faller, Michael Schuler

OA1621 Pericyte coverage of skeletal muscle capillaries is impaired during training-induced angiogenesis in COPD patients
Léo Blervaque (Montpellier CEDEX 5, France), Pascal Pomiès, Matthias Catteau, Emilie Passeerreux, Bronia Ayoub, Marine Blaquière, Lisa Ducros, Francois Bughin, Nicolas Molinari, Jacques Mercier, Maurice Hayot, Fares Gouzi

OA1622 Unbiased analysis of skeletal muscle molecular responses upon pulmonary rehabilitation in advanced COPD
Anita Kneppers (Maastricht, Netherlands), Roy Haast, Ramon Langen, Lex Verdijk, Pieter Leermakers, Harry Gosker, Luc Van Loon, Mitja Lainscak, Annemie Schols

7.3Z2
Session 172 14:45 - 16:45

Hot topics: Cleaning agent exposures: are they really harmful to lung health?
Clinical review of inhaled toxicology and potential mechanisms, epidemiology and clinical effects

Aims: to present and discuss (i) what is known about the structure, function and toxicology of cleaning agent exposures, (ii) details on the epidemiology of lung diseases attributed to such exposures, (iii) strong and weak evidence of lung diseases' epidemiology attributed to cleaning agent exposures, (iv) links with asthma and COPD.

Disease(s): Airway diseases

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, Nurse, Physiologist, Scientist (basic, translational)

Chairs: David Fishwick (Sheffield (South Yorkshire), United Kingdom), Sara De Matteis (London, United Kingdom), Frédéric De Blay (Strasbourg, France)

OA1623 Five-repetition sit-to-stand and mortality in COPD: a prospective cohort study
Sarah Jones (Berkshire, United Kingdom), Claire Nolan, Suhani Patel, Ruth Barker, Samantha Kon, Michael Polkey, Nicholas Hopkinson, Matthew Maddocks, William Man

OA1624 Regular extended release morphine for chronic breathlessness: a multi-centre double-blind RCT
David Currow (Sydney (NSW), Australia), Sandra Louw, Philip Mcccloud, Belinda Fazekas, John Plummer, Christine Mcdonald, Meera Agar, Katherine Clark, Nikki Mceaffrey, Amy Abernethy, Magnus Ekstrom
Symposium: Mitochondrial dysfunction as a driver of lung disease
Aims: to describe the pathogenic roles of mitochondrial dysfunction in chronic respiratory diseases. Mitochondrial dysfunction is emerging as a driver of lung diseases. Recent studies on the mitochondrial dysfunction in diseases such as cancer and ageing have profoundly increased our understanding of how mitochondrial function regulates multiple cell functions, including energy production, apoptosis, calcium and reactive oxygen species signalling, and the generation of biosynthesis intermediates. Maintaining mitochondrial function is thus critical for ensuring proper organ function. An improved understanding of the mitochondrial dysfunction in lung diseases may promote the identification of novel therapeutic options for chronic respiratory diseases. It may also lead the way to considering repurposing already approved drugs such as metformin.

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Cell and molecular biology
Tag(s): Translational
Target audience: Clinical researcher, Scientist (basic, translational), Student, Trainee

Chairs: Rachel Chambers (London, United Kingdom), Charles Dela Cruz (New Haven, United States of America)

14:45 An introduction to mitochondria in lung biology and disease
Silke Meiners (München, Germany)

15:15 Metabolic control of longevity
Natascha Sommer (Gießen, Germany)

15:45 Lung fibrosis - a disease of mitochondrial dysfunction
Ana Mora (Pittsburgh, United States of America)

16:15 Role of mitochondria in the activation of immune cells in the lung
Argyris Tzouvelekis (Athens, Greece)

Oral presentation: On the right path: understanding and improving the function of an overloaded right heart ventricle
Disease(s): Airway diseases, Pulmonary vascular diseases, Sleep and breathing disorders
Method(s): Imaging, Cell and molecular biology, Physiology, Surgery

Chairs: Frances S. De Man (Amsterdam, Netherlands), François Potus (Kingston, Canada)

OA1633 Right ventricular mass/volume in PAH: A double edged sword?
Franz Rischard (Tucson, United States of America), Rebecca Vanderpool, Kelly Wickstrom, Ankit Desai, Sophia Airhart, Ryan Avery, Robert Naeije

OA1634 Effects of urocortin-2 on cellular Ca2+ homeostasis in right heart failure induced by pulmonary artery hypertension
Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal), Simon C Kraler, Senka Holzer, Adelino Leite-Moreira, Simon Sedej, Carmen Brás-Silva

OA1635 Allopurinol reduces RV mass in patients with severe COPD
Patrick Liu Shiu Cheong (Newport-on-Tay, United Kingdom), Brian Lipworth, Jonathan Weir-Mecall, Allan Struthers

OA1636 The right ventricle function in highlanders with sleep-related respiratory disturbances
Cholponbaeva Meerim (Bishkek, Kyrgyzstan), Kubatbek Muratali uulu, Samat A Satybaldiev, Nursultan Baktybek, Aidana T Toktosunova, Abdurashid M Maripov, Akpay Sh Sarybaev

OA1637 Young males with pulmonary arterial hypertension have a high afterload and low right ventricular ejection fraction at presentation
Joanne Groeneveldt (Amsterdam, Netherlands), Cathelijne E.E. Van Der Bruggen, Pia Trip, Nico Westerhof, Berend E. Westerhof, Anton Vonk-Noordergraaf, Frances S. De Man

OA1638 Outcomes of surgical treatment of VSD with pulmonary hypertension
Sheenam Walia (Chandigarh (Uttar Pradesh), India), Gd Puri, Komal Gandhi, Mk Ganesh, Banashree Mandal
Session 175  14:45 - 16:45

Oral presentation: Educational tools to improve your practice

**Disease(s):** Airway diseases, Respiratory infections, Sleep and breathing disorders, Respiratory infections

**Method(s):** Imaging, Public health, General respiratory patient care

**Chairs:** Gernot G.U. Rohde (Frankfurt am Main, Germany), Chad Jackson (United States of America)

OA1639 Education and training in lung ultrasound: a systematic review
Pia Iben Pietersen (Odense C, Denmark), Kristian R. Madsen, Ole Graumann, Lars Konge, BjoRn U. Nielsen, Christian B. Laursen

OA1640 Interprofessional education (IPE) for respiratory care in neuromuscular disease (NMD) is feasible, and improves confidence in clinical practice
Alanna Hare (London, United Kingdom), Michelle Chatwin, Deborah Field, Hui-Leng Tan, Anita Simonds

OA1641 Comparative analysis of Respipedia, Nupedia and Wikipedia. Is it possible for Respipedia to avoid Nupedia's fate?
Piotr Naporan (Wroclaw, Poland), Sylwia Szromba, Piotr M. Naporan

OA1642 The role of mobile apps in allergic respiratory diseases: an italian survey report
Carlo Lombardi (Roma (RM), Italy), Matteo Bonini, Giovanni Passalacqua

OA1643 Development of a shared decision-making tool to support patients and their healthcare provider in choosing the best inhaler device
Esther I. Metting (Groningen, Netherlands), Lise Van Dijk, Halima El Messlaki, Jos Luers, Janwillem Kock

OA1644 Reframing asthma and inhaled corticosteroids (ICS) to modify treatment beliefs: an online randomised controlled trial
Caroline B. Katzer (London, United Kingdom), Vari Wileman, Amy H. Y. Chan, Stephanie J. C. Taylor, Rob Horne

OA1645 The Pulmonary Passport: Uptake of a regional electronic procedure logbook in Respiratory Medicine
Maryam Ahmed (Manchester, United Kingdom), Tarek Saba, Tracy Duncan, Seamus Grundy, Matthew Evison

Session 176  14:45 - 16:45

Oral presentation: Novel immunology-based therapies in asthma and COPD

**Disease(s):** Respiratory critical care, Airway diseases

**Method(s):** General respiratory patient care, Cell and molecular biology

**Chairs:** Apostolos Bossios (Stockholm, Sweden), Marco Idzko (Vienna, Austria)

OA1646 Late Breaking Abstract - Pharmacological characterization of T cell-induced broncho-constriction in vitro and in vivo
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Kouyama, Miyako Yamaguchi, Chiemi Kumitani, Akemi Ohtomo-Abe, Norihiko Fujita, Maki Iwata, Kiska Nagayama, Kai Ryu, Yuto Nakamura, Yasuhiro Tomita, Yuto Hamada, Hiroaki Hayashi, Kento Watai, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomi, Masami Taniguchi, Takayuki Ohtomo, Osamu Kaminuma

OA1647 IL-37 ameliorates experimental asthma by inhibiting IL-1
Alexandra Schroeder (Borstel, Germany), Lars Lunding, Christina Vock, Bianca Schaub, Ulrich Zissler, Heinz Fehrenbach, Michael Wegmann

OA1648 Alamandine reduces eosinophilic inflammation in an experimental model of asthma
Juliana Gregório (Belo Horizonte, Brazil), Giselle Magalhães, Glória Rodrigues-Machado, Kezia Gonzaga, Aline Oliveira, Fernando Souza-Neto, Barbara Rezende, Vanessa Pinho, Luciola Barcelos, Rafaela Fernandes Da Silva, Robson Santos, Maria Jose Campagnole-Santos

OA1649 Omalizumab enhances the percentage of GARP cells in both regulatory and terminally differentiated effector Th cells in severe allergic asthmatics
Juan-José Nieto-Fontarigo (Santiago De Compostela, Spain), Francisco-Javier Salgado-Castro, Maria-Ester San-José-Capilla, José-Martin Carreira-Villamar, Luis Valdés-Cuadrado, Ana Faraldo-García, Miguel-Angel García-González, Carmen Diego-Roza, Pablo Martín-Lancharo, José-Domingo Moure-González, Tania Liñares-Mata, El-Bahi Takkouche-Soullamas, Pilar Arias, Montserrat Nogueira, Francisco-Javier González-Barcala

OA1650 Immunogenicity of Mepolizumab in Patients with Severe Eosinophilic Asthma: Experience from the Clinical Development Program
Hector Ortega (San Diego, United States of America), Erik Meyer, Guy Brusselle, Koichiro Asano, Robert Price, Charlene Prazma, Frank Albers, Steven Yancey, Gerald Gleich
Dupilumab efficacy in asthma patients with comorbid chronic rhinosinusitis or nasal polyposis (CRS/NP) in LIBERTY ASTHMA QUEST

OA1651
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Linda Ford, Lawrence Sher, Klaus F. Rabe, Ha-Sim Park, Borja G. Cosio, Meredith C. Foster, Heribert Staudinger, Jaman Maroni, Paul Rowe, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolename Akinlade, Neil M. H. Graham, Ariel Tepner

Tryptase loss-of-function mutations reduce tryptase expression and predict asthmatic response to anti-IgE therapy

OA1652
David Choy (South San Francisco, United States of America), Neil Trivedi, Amy Dressen, Magda Babina, Rahul Ahuja, Tangsheng Yi, Janet Jackman, Guiquan Ji, Jason Hackney, Luz Orozco-Guerra, Diana Chang, George Caughey, Brian Yaspan

Systemic immunological changes following intravenous mesenchymal stromal cell infusion in stable COPD patients

OA1653
Jesse Armitage (Perth (WA), Australia), Dino Tan, Russel Troedson, Paul Young, Kay-Vin Lam, Kathryn Shaw, Marian Sturm, Daniel Weiss, Yuben Moodley

Late Breaking Abstract - Azithromycin for acute COPD exacerbations requiring hospitalization – the BACE trial results

OA1654
Wim Janssens (Leuven, Belgium), Kristina Vermeersch, Maria Gabrovska, Joseph Aumann, Ingel K. Demedts, Jean-Louis Corhay, Eric Marchand, Hans Slabynek, Christel Haenelbalce, Michiel Haerens, Shane Hanon, Pham Anh Hong Nguyen, Rudi Peche, Antoine Fremaul, Tine Lauwerier, Bert Vandenberg, Stephanie Everaerts, Vincent Ninane, Geert M Verleden, Thierry Troosters, Kris Bogaerts, Guy G Brusselle

COPD exacerbations in the phase 3 revefenacin clinical trial program

OA1655
James F. Donohue (Chapel Hill, United States of America), Sanjay Sethi, Craig N. Barnes, Edmund J. Moran, Srikanth Pendyala, Glenn Crater, Brett Haumann

Pharmacodynamic and pharmokinetic results after repeated doses of AZD8871 in COPD patients

OA1656
Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom), Carol Astbury, Lali Jimenez, Ulrika Walby Hamren, Beatriz Seoane, Marie-Pierre Malice, Victor Balaguer, Alejandra Le, Ajay Aggarwal, Dave Singh

Early Clinically Important Improvement (ECII) and exacerbation outcomes in the FLAME study

OA1657
Konstantinos Kostikas (Basel, Switzerland), Alexander J. Macall, Claus F. Vogelmeier, Stefan-Marian Frent, Pascal Pfister, Pratim Gupta, Donald Banerji, Francesco Patalano, Jadwiga A. Wedzicha

Single inhaler triple therapy in patients with COPD: response rates in health-related quality of life in the IMPACT Trial

OA1658
Maggie Tabberer (Uxbridge (Middlesex), United Kingdom), Christine Elaine Jones, Sally Kilbride, Gerard J Criner, Peter Lange, Meilan K Han, Fernando Martinez, David A Lipson

Reduction in fatal events with extrfine inhaled corticosteroid (ICS)-containing medications: results of stratified safety pooled analysis of the TRILOGY, TRINITY and TRIBUTE studies.

OA1659
Leonardo Michele Fabbri (Modena, Italy), Dave Singh, Nicolas Roche, Massimo Corradi, Alessandro Guasconi, Mario Scuri, Isabella Montagna, Géraldine Cohuet, Catherine Francisco, Stefano Vezzoli, Stefano Petruzelli, Alberto Papi

Economic and quality of life consequences of clinically important deterioration in patients with COPD: results from the TORCH study

OA1660
Afisi Ismaila (Cary, United States of America), Maurice Driessen, Andrew Briggs, Nancy Risebrough, Ian Naya, Necdet Gunsoy, Victoria Paly

KRONOS: 24-week study of triple fixed-dose combination budesonide/glycopyrronium/formoterol (BGF) MDI via co-suspension delivery technology vs glycopyrronium/formoterol (GFF) MDI, budesonide/formoterol (BFF) MDI and BFF inhalation powder in COPD

OA1661
Gary T. Ferguson (Farmington Hills, United States of America), Klaus F. Rabe, Fernando J. Martinez, Leonardo M. Fabbri, Chun Wang, Masakazu Ichinose, Eric Bourne, Shaila Ballal, Kieman Deangelis, Magnus Aurivillius, Paul Dorinsky
Individually customized settings can extend the use of mechanical assisted cough in amyotrophic lateral sclerosis

Tiina Andersen (Bergen, Norway), Astrid Sandnes, Ove Fondenes, Thomas Halvorsen, Ole-Bjørn Tysnes, John-Helge Heimdal, Hege Clemm, Maria Vollseter, Ola Orange Rok sand

Accuracy of built-in software for the detection of residual apneic events occurring during non-invasive ventilation.

Elena Lindemann (Nürnberg, Germany), Maxime Patout, Elodie A. Lhuillier, Gill Arbane, Nicholas Hart, Patrick B. Murphy

Effects of nocturnal Non-Invasive Ventilation (NIV) with automatic tailoring of Positive End Expiratory Pressure (PEEP) on gas exchange and patient-ventilator interaction in COPD (Chronic Obstructive Pulmonary Disease)

Ilaria Milesi (Milano (MI), Italy), Roberto Porta, Michele Vitacca, Simona Cacciatore, Luca Barbano, Raffaele Dellacà

Generic longitudinal and real-time cloud-based monitoring for hospital- and home-based non-invasive ventilation – a Proof-of-Concept study

Gabriel Benz (Winterthur, Switzerland), Bernarde Schillig, Daniel Wattenhofer, Franz Michel, Martin Brutsche

Effectiveness of humidified and warmed High Flows Nasal Oxigen (HFNO) in frequently exacerbating COPD patients.

Antonio Di Sorbo (Caiazzo (CE), Italy), Mariano Mazza, Assunta Micco, Angelo Romano, Gaetano Beatrice, Mario Del Donno

Nasal vs oronasal interface during exercise under noninvasive ventilation in COPD: A randomized cross-over study

Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Francis-Edouard Gravier, Clément Médrinal, Guillaume Prieur, Catherine Tardif, Jean-François Muir, Antoine Cuvelier, Gregory Reychler, David Debeaumont, Catherine Viacroze

2-way remote monitoring in adaptive mode allows effective and realistic provision of home Non-Invasive Ventilation(NIV) to patients with severe COPD

Grace McDowell (Glasgow (Glasgow), United Kingdom), Hannah Toellner, Duncan Macfarlane, Robin Tourish, Christopher Canavan, Aileen Brown, Heather Ambler, Christopher Carlin

Remote monitoring of home non-invasive ventilation: a feasibility study

Annabel Nickol (Oxford, United Kingdom), Julie Young, Nichola Ashforth, Katherine Price, Alex Wilson, Annabel Nickol

Exploring experiences and views of patients, their carers and health care professionals (HCP) on using modems in managing patients receiving home non-invasive ventilation (NIV): a qualitative study

Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Martin Wood, Francesca Gowing, Swapna Mandal

Patients' expectations for a new lightweight portable noninvasive ventilator for shortness of breath

Jean Christian Borel (Meylan, France), Annabelle Couillard, Charles Aguirre, Matthieu Lesgoirres, François Arbib, Martial Desflaschelles, Thibaut Gentina, Christophe Brousse, Mohammad Chakra, Yoann Thibout, Philippe Tarodo, Michele Bognie, Emmanuel Courau, Christophe Raspaud, Patrice Ray, Alain Proust, Nathalie Plouvier, Christophe Pison, Jean Louis Pivin

Clinical utility of the respiratory center response to hypercapnia in OHS patients

Ines Ruiz Alvarez (Oviedo, Spain), Ramon Fernandez Alvarez, Gemma Rubinos Cuadrado, Marta Iscar Urrutia, Maria Jose Vazquez Lopez, Francisco Rodriguez Jerez, Tamara Hermida Valverde, Pere Casan Clara

Long-term tracheostomy ventilation in the community: characteristics of a UK cohort

Patrick B. Murphy (Oxted (Surrey), United Kingdom), Patrick Bradley, Kelly Stewart, Nicholas Skipper, Leonor Meira, Michelle Ramsay, Eui-Sik Suh, Joerg Steier, Philip Marino, Nicholas Hart

AVAPS-AE vs. ST mode: A randomised controlled trial in patients with obesity hypoventilation syndrome

Maxime Patout (Mont-Saint Aignan, France), Frédéric Gagnadoux, Claudio Rabec, Wojciech Trzezipur, Marjolaine Georges, Christophe Perrin, Renaud Tamisier, Claudia Llontop, Frédéric Goutorbe, Chérifa Gounane, Sandrine Pontier-Marchandise, Pierre Cervantes, Vanessa Bironne, Adrianna Portmann, Jacqueline Delrieu, Jean-François Muir, Antoine Cuvelier

Psychiatric Pathology and non-invasive ventilation.

Virginia Almadana Pacheco (Sevilla, Spain), Rafael Perera, Cristina Benito, Ana Gómez-Bastero, Agustín Valido

The cost benefit of initiating domiciliary Non-invasive Ventilation (NIV) as an outpatient is accompanied by good clinical outcomes for hypercapnic Chronic Obstructive Pulmonary Disease (COPD) patients

Charlotte Tai (London, United Kingdom), Noor Madhi, Georgia Whitlow, Katharine Martin, Sandip Banerjee

Home Noninvasive Ventilation with Built-in Software in Chronic Hypercapnic COPD Patients: a Mid-term Prospective, Multicenter, Randomized, Controlled Trial

Lili Guan (Guangzhou, China), Luqian Zhou, Rongchang Chen
**Terminal 7  Session 179  14:45 - 16:45**

**Oral presentation: Variant forms of asthma**

**Disease(s):** Airway diseases

**Method(s):** Physiology  Cell and molecular biology  General respiratory patient care  Epidemiology

**Chairs:** Rachel Nadif (Villejuif, France), Stefan Blaas (Regensburg, Germany)

- **Late Breaking Abstract - Risk of a severe exacerbation following higher reliever use: post-hoc analysis of SYGMA 1 in mild asthma**
  Paul O’Byrne (Hamilton (ON), Canada), J. Mark Fitzgerald, Eric D. Bateman, Peter J. Barnes, Nanshan Zhong, Christina Keen, Millie Wang, Rosa Lamarca, Margaréta Puu, Helen K. Reddel

- **Investigating the role of smoking in the development of aspirin-exacerbated respiratory disease**
  Hiroaki Hayashi (Sagamihara (Kanagawa prefecture), Japan), Yuma Fukutomi, Chihiro Mitsu, Kentaro Watai, Maki lwata, Kisco Nagayama, Yuto Nakamura, Yuto Hamada, Kai Ryu, Yasuhiro Tomita, Yoshi Ka Kamide, Kiyoshi Sekiya, Takahiro Tsuburai, Akio Mori, Yoshinori Hasegawa, Masami Taniguchi

- **Special phenotypes of obesity at young patients with bronchial asthma**
  Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Natalia Gordeeva, Svetlana Chubarova, Marina Mamaeva

- **Improving GINA adoption by designing a mobile based clinical decision support system**
  Marsa Gholamzadeh (Tehran, Islamic Republic of Iran), Hamidezra Abtahi, Shahideh Amini, Zahra Taleb

- **Association between the GLCCI1 variant and response to inhaled corticosteroids in South Vietnamese asthmatics**
  Hai Thanh Ngo Nguyen (Hồ Chí Minh, Vietnam), Van Ngoc Tran, Anh Vu Hoang

**7.2A  Session 180  14:45 - 16:45**

**Poster discussion: Asthma management**

**Disease(s):** Airway diseases  Respiratory critical care

**Method(s):** Physiology  General respiratory patient care

**Chairs:** Tiziana Patrizia Cremona (Bern, Switzerland), Asger Sverriod (København NV, Denmark)

- **Changes in forced oscillatory parameters in reversibility testing as predictors for cough variant asthma**
  Toshihiro Shirai (Shizuoka, Japan), Hirofumi Watanabe, Taisuke Akamatsu, Kanami Tamura, Toshihiro Masuda, Shingo Takahashi, Yuko Tanaka, Yoshinari Endo, Takahito Suzuki, Rie Noguchi, Mika Saigusa, Akito Yamamoto, Yuichiro Shishido, Takefumi Akita, Satoru Morita, Kazuhiro Asada

- **Step-down of moderate-severe asthma treatment in clinical practice**

- **Effect of cumulative smoking history on disease burden and multimorbidity in adult-onset asthma**
  Minna Tommola (Seinäjoki, Finland), Pinja Ilmarinen, Leena E Tuomisto, Lauri Lehtimäki, Onni Niemelä, Pentti Nieminen, Hannu Kankaanrantta

- **Exposure-response analysis of tezepelumab in patients with severe asthma to guide phase 3 dose selection**
  Neang Ly (Mountain View, United States of America), Yanan Zheng, Janet M. Griffiths, René Van Der Merwe, Balaji Agoram, Lorin Roskos

- **Clustering analysis for omalizumab responder patient profiles identification. Fenoma study**
  Carlos Almonacid Sanchez (Madrid, Spain), José Gregorio Soto Campos, Paloma Campo Mozos, Ana Moreira Jorge, Ignacio Jesus Davila Gonzalez

- **Aerobic fitness in asthmatic adolescents with fixed airway obstruction**
  Andrey Sousa (São Paulo (SP), Brazil), Ronaldo Aparecido Silva, Anna Lúcia Cabral, José Grindler, Alfredo José Fonseca, Milton Arruda Martins, Celso Rf Carvalho
Can air purifier promote the indoor cleanliness and improve the patients with asthma?
Takao Miyoshi (Tokyo, Japan), Wakaba Furuie, Yoshio Otani, Chihiro Tani, Marika Waku, Fumika Koike, Yasunari Miyazaki, Naohiko Inase, Tetsuo Sasano, Miho Akaza, Tetsuo Kubota, Yuki Sumi

Holistic management of asthma exacerbation in emergency department (ED): A-CARE (Asthma-COPD Afterhours Respiratory Nurse at Emergency) program
Si Yuan Chew (Singapore, Singapore), Jenneth Yue Ling Leow, Adrian Kwok Wai Chan, Jing Jing Chan, Donna Tan, Aman Butta, Mariko Siyue Koh

Antagonists for Chemoattractant receptor-homologous molecule expressed on Th2 cells in asthma: a meta-analysis and systematic review
Jing Yang (Beijing, China), Jian Luo, Ling Yang, Dan Yang, Dan Wang, Bicui Liu, Binmiao Liang, Chuantao Liu

A nocturnal temperature controlled laminar flow device (TLA) maintains good control of severe allergic asthma (SAA) after withdrawal of Omalizumab therapy
Chun-Hua Wang (Taipei, Taiwan), Chun-Yu Lo, Han-Pin Kuo

Consideration of Aspergillus component for Allergic Bronchopulmonary Aspergillosis(ABPA)
Kazunobu Kuwabara (Nagoya, Japan), Koichiro Takita, Rieko Kondo, Takahiko Horiguchi

Assessment of diagnostic accuracy of lung function indices and FeNO for a positive methacholine challenge in suspected asthmatics
Nicolas Bougard (Ougrée, Belgium), Florence Schleich, Françoise Guissard, Renaud Louis

When omalizumab is effective, should treatment be for life?
Maria Sanchez-Carpintero Abad (Orkoien (Navarra), Spain), Virginia Collados Arroyo, Guillermo Doblaré Higuera, Aythamny Henriqueta Santana, Francisco Javier Ruiz Hornillos, Sandra Blanco Bermejo, Francisco José Roig Vazquez

Spanish study on unmet clinical needs in patients with uncontrolled severe asthma.
Luis Pérez De Llano (Lugo, Spain), Eva Martinez Moragon, Borja Garcia-Cosio, Vicente Plaza

Development of a novel prediction model for acute asthma exacerbation
So-Young Park (Seoul, Republic of Korea), Jung-Hyun Kim, Bomi Seo, Woo-Jung Song, Hyouk-Soo Kwon, Tae-Bum Kim, Hee-Bom Moon, You Sook Cho

Impulse oscillometry in Small airway dysfunction in asthmatics and its utility in asthma control.
Ragia Samir Sharshar (Tanta, Egypt)

The validation of the Severe Asthma Questionnaire (SAQ).
Rupert Jones (Milton Combe, United Kingdom), Michael Hyland, Joseph Lanario, Matthew Masoli

Poster discussion: Respiratory muscle function, postural control and breathing exercises in chronic respiratory conditions

Method(s): Epidemiology  Public health  General respiratory patient care  Physiology

Disease(s): Airway diseases  Respiratory infections  Pulmonary vascular diseases  Sleep and breathing disorders  Respiratory critical care  Respiratory infections

Disease(s): Airway diseases  Respiratory infections  Pulmonary vascular diseases  Sleep and breathing disorders  Respiratory critical care  Respiratory infections

7.2B  Session 181  14:45 - 16:45

Determining the efficacy of physiotherapy interventions in paediatric dysfunctional breathing
Jane Kirkby (Sheffield, United Kingdom), Nicki Barker, Ravi Thevasagayam, Kelechi Ugonna

The effect of breathing retraining on patients with difficult asthma and dysfunctional breathing
Lone Schaadit (Vallensbæk Strand, Denmark), Martin Dam Soerensen, James Hull, Celeste Porsbjerg

Incentive spirometry: aspects of clinical practice of professionals working with patients with respiratory dysfunction
Veronica Parreira (Belo Horizonte (MG), Brazil), Liliane Mendes, Larissa Borges, Letícia Mendonça, Dayane Montemezzo, Giane Ribeiro-Samora

Maximal sustained inspiration promotes similar changes on breathing pattern and chest wall motion compared to Incentive spirometry
Veronica Parreira (Belo Horizonte (MG), Brazil), Liliane Mendes, Luana Teixeira, Layza Cruz, Danielle Vieira

Effect of manual breathing assist techniques on deoxygenation of sternocleidomastoid and lung volumes in patients with COPD
Takako Tanaka (Nagasaki, Japan), Ryo Kozu
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<tr>
<th>Poster ID</th>
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<tr>
<td>PA1707</td>
<td>Inspiratory muscle weakness is associated to static balance in middle-aged and older women</td>
<td>Ingrid Guerra Azevedo (Natal (RN), Brazil), Silvana Sousa, Felipe Morillas, Elizabel Viana, Alvaro Maciel, Saisonara CâMara</td>
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<tr>
<td>PA1708</td>
<td>Inspiratory muscle training decreases ankle proprioceptive use during balance control in patients with COPD</td>
<td>Lotte Janssens (Diepenbeek, Belgium), Daniel Langer, Sauwaluk Dacha, Zafeiris Louvaris, Simon Brumagne, Nina Goossens, Charlotte Amerijckx, Rik Gosselin</td>
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<tr>
<td>PA1709</td>
<td>Differences in balance between children with mild asthma and healthy children</td>
<td>Katerina Neumannova (Oломouc, Czech Republic), Zuzana Kovacicova, Miroslav Janura, Jana Rydlova</td>
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<td>PA1710</td>
<td>The Trunk Control Test: relations with respiratory muscle strength and peak expiratory cough flow</td>
<td>Monique Messaggi Sarfori (Barcelona, Spain), Ester Marco, Natalia Neira-Fernandez, Cindry Ramirez-Fuentes, Roser Boza, Esther Duarte, Anna Guillen-Solà</td>
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<tr>
<td>PA1711</td>
<td>Comparison of balance and coordination abilities between asthmatic patients and healthy subjects</td>
<td>Ayşenur Yilmaz (Denizli, Turkey), Süleyman Gürsoy, Orçin Telli Atalay, Harun Taşkin, Ali Yalman, Binnaz Fatma Evyapan</td>
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<td>PA1712</td>
<td>Metronome paced tachypnoea as an indicator of dynamic hyperinflation in incremental and constant work rate tests</td>
<td>Clancy Dennis (Canberra (ACT), Australia), Collette Menadue, Tessa Schneebecker, Rainer Gloeckl, Daniella Letitl, Alison Harmer, Ursula Schoentien-Kenn, David Barnes, Andreas Rembert Koczulla, Klaus Kenn, Jennifer Alisons</td>
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<td>PA1713</td>
<td>NIV reduces oxygen consumption during rest and constant work rate exercise in patients with COPD</td>
<td>Clancy Dennis (Canberra (ACT), Australia), Collette Menadue, Tessa Schneebecker, Rainer Gloeckl, Daniella Letitl, Alison Harmer, Ursula Schoentien-Kenn, David Barnes, Andreas Rembert Koczulla, Klaus Kenn, Jennifer Alisons</td>
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<td>PA1714</td>
<td>Comparison between manual and automated analyses of esophageal diaphragm electromyography during endurance cycling in patients with COPD</td>
<td>Sutwaluk Dacha (Leuven, Belgium), Luc Janssens, Zafeiris Louvaris, Lotte Janssens, Rik Gosselin, Daniel Langer</td>
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<td>PA1715</td>
<td>Analysis of maximum relaxation rate in patients with Duchenne Muscular Dystrophy compared to healthy subjects</td>
<td>Jéssica Daniene Medeiros da Fonseca (Santa Cruz, Brazil), Ilza Priscila Santos, Maria Lira, Layana Marques, Ana Marcelino, Mario Emilio Dourado-Junior, Guillerme Fregonezi, Vanessa Resqueti</td>
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<td>PA1716</td>
<td>A mismatch between dyspnea and general-respiratory functional tests in patients with Amyotrophic Lateral Sclerosis</td>
<td>Vinicius Iamonti (São Paulo (SP), Brazil), Magre Pereira, Jefferon Ferreira, Gerson Chadi, Frederico Jorge, Pedro Caruso, Leticia Cardenas, Natalia Pontes, Flavia Badaro, Carlos Carvalho, Andre Luís Albuquerque</td>
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<td>PA1717</td>
<td>High-intensity inspiratory muscle training in bronchiectasis: a randomized controlled trial</td>
<td>Ozge Ozalp (Ankara, Turkey), Deniz Inal-Ince, Aslihan Cakmak, Ebru Calik-Kutukcu, Melda Saglam, Sema Savci, Naciye Bardar-Yaghi, Lutfi Coplu, Jaie Karakaya, Hulya Ankan</td>
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<tr>
<td>PA1718</td>
<td>Effects of inspiratory muscle training on the sensation of dyspnea in patients with pulmonary hypertension group I and IV - Randomized controlled clinical trial</td>
<td>Fabricio Farias da Fontoura (Porto Alegre (RS), Brazil), Gabriela Roncato, Guilherme Watte, Fernanda Brum Spilimbergo, Gisela Martina Bohns Meyer, Katya Rigatto, Danilo Cortozi Barton</td>
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**7.2C Session 182** 14:45 - 16:45

**Poster discussion:** Systematic reviews on the health effects of emerging tobacco products and electronic nicotine delivery systems (ENDS)

**Disease(s):** Airway diseases, Respiratory infections

**Method(s):** Cell and molecular biology, General respiratory patient care, Epidemiology, Physiology, Public health

**Chairs:** Mehmet Atilla Uysal (Istanbul, Turkey), Constantine Vardavas (Athens, Greece)

**PA1719** Late Breaking Abstract - The impact of tabacco heating systems on haemodynamics

Lukas Wittig (Lübeck, Germany), Svenja Belkin, Kai Mortensen, Michael Reppel, Daniel Drömann, Klaas Franzen

**PA1720** Study of lung functions in tobacco chewers

Abhijit Vinod (Ahuja (Mumbai (Maharashtra), India), Abhay Uppe, Girija Nair

**PA1721** Acute health effects of short-term use of e-cigarette on respiratory and cardiovascular system

Mateusz Jankowski (Katowice, Poland), Grzegorz Brożek, Jan Zejda, Paulina Majek, Jakub Lubanski

**PA1722** Passive exposure of COPD patients to e-cigarette vape - a double-blinded exposure chamber study

Jakob Bønløkke (Hjortshoej, Denmark), Karin Rosenkilde Laursen, Merete Bilde, Marianne Glasius, Elisabeth Bendstrup, Peter Ravn, Vivi Schlüssen, Søren K Kjærgaard, Torben Sigsgaard
| PA1723 | Acute changes in PFT’s in asthma patients after the use of e-cigarette  
Serafim Chrysovalantis Kotoulas (Θεσσαλονίκη, Greece), Despoina Papakosta, Dionysios Spyrratos, Evangelia Fouka, Aikaterini Markopoulou, Konstantinos Porpodis, Evangelia Panagiotidou, Evangelos Chatzopoulos, Theodoros Kontakiotis, Paraskevi Argyropoulou, Athanasia Parata |
| PA1724 | Effects of electronic cigarette aerosol on isolated murine lung cells and bronchoalveolar lavage fluid  
Elsa Tadele Roxlau (Munich, Germany), Alexandra Pichl, Balachandar Selvakumar, Ralph T. Schermuly, Hossein A. Ghofrani, Werner Seeger, Werner Seeger, Jochen Wilhelm, Mirja Fassbender, Friedrich Grimminger, Susanne Herold, Natascha Sommer, Norbert Weissmann |
| PA1725 | Acute effects of e-cigarette inhalation with or without nicotine on levels of microvesicles in the blood of human volunteers  
Magnus Lundbäck (Stockholm, Sweden), Fariborz Mobarak, Lukasz Antoniewicz, Jenny Bosson Damewood |
| PA1726 | ROLE OF E-CIGARETTES IN THE SMOKING CESSATION  
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yurii Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov |
| PA1727 | Effects of heat-not-burn tobacco on health are different from conventional cigarette  
Shin-ichi Hagiwara (Hagamachi, Japan) |
| PA1728 | Nicotine influence on hemocoagulation system  
Anna Bulanova (Tomsk, Russian Federation), Ekaterina Bukreeva, Ivan Tuytrin |
| PA1729 | Can heat-non-burn tobacco be "non-burn" and "smokeless"?  
Efthimios Zervas (Patra, Greece), Paraskevi Katsaounou |
| PA1730 | Lessons from systematic analysis of scientific publications on heated tobacco  
Bertrand Dautzenberg (Paris, France), Marie-Dominique Dautzenberg |
| PA1731 | World scientific production of tobacco and smoking  
Efthimios Zervas (Patra, Greece), Konstantinos Konstantopoulos, Paraskevi Katsaounou |
| PA1732 | Meta-analysis on the Effect of Current Smoking on the Risk of Developing Community Acquired Pneumonia  
Vadsala Bakaran (Nottingham (Nottinghamshire), United Kingdom), Rachael Murray, Abby Hunter, John Britton, Wei Shen Lim, Tricia Mckeever |
| PA1733 | Systematic Review on the Effect of Current Smoking on the Risk of Influenza  
Hannah Lawrence (Nottingham (Nottinghamshire), United Kingdom), Abby Hunter, Rachael Murray, Wei Shen Lim, Tricia Mckeever |
| PA1734 | Spirometry to motivate smoking cessation - a systematic review  
Elisabeth Westerdahl (Örebro, Sweden), Mats Arne, Mats Larsson, Kjell Ola Engman |
| PA1735 | Spirometric lung age (SLA) norms: a review  
Mouna Ben Khelifa (sousse, Tunisia), Halima Ben Salem, Souheil Chatti, Sonia Rouatbi, Helmi Ben Saad |

7.2D Session 183  14:45 - 16:45

Poster discussion: Thoracic surgery, pleural effusions and other general thoracic surgery

**Disease(s):** Respiratory infections, Respiratory critical care, Airway diseases, Thoracic oncology, Interstitial lung diseases

**Method(s):** Epidemiology, Endoscopy and interventional pulmonology, Surgery

**Chairs:** Anne Olland (Strasbourg, France), Dragan R. Subotic (Basel, Switzerland)

| PA1736 | Feasibility of unportal VATS anatomic segmentectomy in the treatment of complex pulmonary tuberculosis  
Eugene Shepichev (Saint Petersburg, Russian Federation), Armen Avetisyan, Grigorii Kudriashov, Igor Vasilyev, Ilya Sereznin, Makhmud Mortada, Piotr Yablonski |
| PA1737 | Plastic surgery of extensive defects of the anterior wall of the trachea after laryngo-tracheostomy.  
Rustem Hayaliyev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otbek Eshonkhodjaev |
| PA1738 | Intravenous laser blood irradiation in preoperative preparation for patients with XDR tuberculosis  
Vilayat Aliyev (Moscow, Russian Federation), Mamed Bagirov, Sverlana Sadovnikova, Elena Krasnikova, Dmitriy Prokhodtsov |
| PA1739 | Cytoreductive operations in complex treatment for lung metastases of colorectal cancer.  
Aleksey Reshetov (St. Petersburg, Russian Federation), Aleksey Elkin, Vasily Klimenko, German Nikolaev, Dmitry Ermakov |
PA1740 Multidisciplinary approach in the diagnosis of Idiopathic Pulmonary Fibrosis: role of transbronchial lung cryobiopsy and surgical biopsy on a cohort of 153 patients.
Stefano Sanna (Forlì, Italy), Sara Tomassetti, Desideria Argnani, Marta Mengozzi, Claudia Ravaglia, Anna Mariantonia Parisi, Jury Brandolini, Venerino Poletti, Maurizio Salvi

PA1741 Up-today approaches in the surgical treatment of post-pneumonectomy empyema
Anatoli Semkov (Sofia, Bulgaria), Georgi Yankov, Mihail Plochev, Danail Petrov

PA1742 Analysis of the solitary pulmonary nodule after surgical resection in patients using 18F-FDG integrated PET-CT scan at preoperative work-up.

PA1743 Synchronous primary lung cancers: a clinical challenge in modern thoracic oncology
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Aggeliki Mpairaktari, Gerasimos Aravantinos, Nikolaos Anastasiou

PA1744 Segmentectomies with minimal invasive surgery
Selma Mine Kara Apaydin (Ankara, Turkey), Funda Incekara, Koray Aydogdu, Sevki Mustafa Demiroz, Gokturk Fındık

PA1745 Should we take the biopsy during EBUS staging in group 2r.2L?
Igor Vasilev (St. Petersburg, Russian Federation), Andrey Skorockhod, Ivan Zaitcev, Piotr Yablonskii

PA1746 Minimally invasive lobectomy for localized single-sided pulmonary tuberculosis: preliminary results of one-year follow-up
Grigorii Kudriashov (St. Petersburg, Russian Federation), Ekaterina Davydenkova, Sultan Gasanmagedov, Igor Vasilev, Armen Avetisyan, Piotr Yablonskii

PA1747 Pneumostomy: an operative proposal - pilot study
André Miotto (São Paulo (SP), Brazil), Julio Mott Ancona Lopez, Roberto Saad Jr, Vicente Dorgan Neto, Marcio Botter, Camila Bertini Martins, Jorge Henrique Rivaben

PA1748 An audit review of safety and complication rates, of rigid bronchoscopy and large airways intervention, in a London tertiary centre
Kavina Manalan (London, United Kingdom), Kate Ryan, Hussain Basheer, Agnieszka Czerar-Gilbert, Brendan Madden

PA1749 Effect of Vitamin C and vitamin E on Lung Contusion: a cohort, prospective Randomized Clinical Trial study
Abdoullhossein Davoodabadi (Kashan, Islamic Republic of Iran)

PA1750 Retrospective analysis of 192 patients with pulmonary metastasectomy: a 12-year singlecenter experience.
Yury Ragulin (Obninsk (Kaluga Oblast), Russian Federation), Evgeny Smolenov, Vladimir Usachev

PA1751 Significancy of systemic lymph node dissection in the treatment of typical bronchial carcinoid tumors: a critical review of endobronchial treatment
Yusuf Kahya (Ankara, Turkey), Mehmet Ali Sakalli, Bülent Mustafa Yenigün, Cabir Yüksel, Serkan Enön, Ayten Kayı Cangır

PA1752 Airway management in tracheal resection for postintubation stenotic lesions
Igor Medvinsky (Yekaterinburg (Sverdlovsk), Russian Federation), Igor Motus, Alexander Bazhenov, Dmitriy Eremin, Sergey Skornyakov, Anna Tsvirenko

PA1753 How much prevention of postoperative recurrence by staple-line reinforcement on thoracoscopic blebectomy for spontaneous pneumothorax?
Masao Naruke (Tokyo, Japan)

7.3J Session 184 14:45 - 16:45
Poster discussion: Lung cancer: from early diagnosis to modern monitoring strategies

Disease(s) : Airway diseases Thoracic oncology Interstitial lung diseases Pulmonary vascular diseases
Method(s) : Endoscopy and interventional pulmonology Cell and molecular biology Epidemiology Public health General respiratory patient care Imaging

Chairs : Jan van Meerbeek (Edegem (Antwerp), Belgium), Agata Raniszewska (Warszawa, Poland)

PA1754 How much prevention of postoperative recurrence by staple-line reinforcement on thoracoscopic blebectomy for spontaneous pneumothorax?
Constantinos Sioutas (Los Angeles, United States of America), Christopher Lovett, Farimah Shirmohammadi, Mohammad H. Sowlat
Genetic susceptibility, residential radon and lung cancer risk in never smokers. Results from the LCRINS Study
Maria Torres-Durán (Vigo (Pontevedra), Spain), María Lorenzo-González, Isaura Parente-Lamelas, Virginia Leiro-Fernandez, José Abal-Arca, Carmen Montero-Martínez, Olalla Castro-Afon, Mariano Provencio-Pulla, Iria Vidal-García, Antonio Golpe-Gomez, Cristina Martínez, Roxiryss Guzman-Taveras, Margarita Amenedo-Gancedo, Alberto Fernandez-Villar, Juan Miguel Barros-Dios, Alberto Ruano-Ravina

Novel non invasive early detection of lung cancer using liquid immunobiopsy metabolic activity profiles.
Yochai Adir (Haifa, Israel), Shoval Tirman, Eyal Davidovits Davidovits, Irit Arbel, Giora Davidovits, Sonia Schneer, Michal Shteinberg, Fernando Patolsky

Liquid biopsy for EGFR mutations in non-small cell lung cancer cases by RT-PCR
Altug Koe (Izmir, Turkey), Tuncay Goksel, Berna Komurcuoglu, Ozge Ozer Kayac, Berk Ozyilmaz, Pinar Gursoy, Yasar B. Kutbay, Ozgur Kirbiyik, Taha Resid Ozdemir, Kadri Murat Erdogan, Merve Saka Guvenc, Gizem Calibasi Kocal, Yasemin Baskin

The use of electronic nose technology for the detection of Lung Cancer (LC): analysis of exhaled volatile compounds by Aeonose®
Ekaterina Krauss (Giessen, Germany), Jana Zoelitz, Jasmin Wagner, Guillermo Barretto, Maria Degen, Werner Seeger, Andreas Guenther

Breath analysis by ion mobility spectrometry allows to discriminate COPD from lung cancer patients.
Lisa Brusselmans (Antwerpen, Belgium), Kevin Lamote, Jan Van Meerbeek

Early detection of lung cancer in patients with COPD by eNose technology
Rianne de Vries (Amsterdam, Netherlands), J. W. F. Dagelet, Frans H. C. De Jongh, Johannes H. H. C. In 'T Veen, Eric G. Haarman, Paul Baas, Michel M. Van Den Heuvel, Anke-Hilse Maitland-Van Der Zee, Peter J. Sterk

Detecting subtypes of non-small cell lung cancer by electronic nose.
Sharina Kort (Enschede, Netherlands), Mayke Tiggeloven, Marjolein Brusse-Keizer, Hugo Schouwink, Frans De Jongh, Emanuel Citgez, Jan Willem Gerritsen, Job Van Der Palen

Detection of small cell lung cancer by electronic nose.
Sharina Kort (Enschede, Netherlands), Marjolein Brusse-Keizer, Hugo Schouwink, Frans De Jongh, Emanuel Citgez, Jan Willem Gerritsen, Job Van Der Palen

Simultaneously detected nodules in lung cancers
Seda Beyhan Sagmen (Istanbul, Turkey), Coskun Dogan, Nesrin Kiral, Elif Torun Parmaksiz, Omer Zengin, Ali Fidan, Sevda Sener Comert

Preliminary results of a french pilot trial of lung cancer screening by low dose CT scan in the department of the Somme (DKP80).
Olivier Lelou (Abbeville Cedex, France), Estelle Hoguet, Caroline Clarot, Mickael Baud, Elodie Barras, Valerie Petigny, Nicolas Benoit, Marianne Auquier, Bruno Chauffert, Pascal Berna, Vincent Jounieux

Willingness to participate in lung cancer screening program according to USPSTF guidelines recommendations
Narges Zarei jalalabadi (Tehran, Islamic Republic of Iran), Enayat Safavi, Soheil Peyman

Chest CT reporting with nodule-tinted spectacles: does it affect nodule/lung cancer services?
Deny Tsakri (Plovdiv, Bulgaria), Nefeli-Ioanna Paizi, Georgia Hardavella

‘E-Noting Nodulomics’: Automating Electronic Clinical Data Mining and Analysis of Pulmonary Nodules Using a Python Algorithm
Richard Lee (London, United Kingdom), Rory Morrice, Georgia Hardavella

Automated Python Algorithm Analysis of Benign Pulmonary Nodules Discharged after 2 years Surveillance
Richard Lee (London, United Kingdom), Rory Morrice, Sa Tran, Georgia Hardavella

Recommendation of proper follow-up for peripheral pulmonary lesions with non-malignant result by bronchoscopy
Masahiro Higashiyama (Tokyo, Japan), Yuji Matsumoto, Toshiyuki Nakai, Midori Tanaka, Takaaki Tsuchida

Improved overall survival after late recurrence of lung cancer following the introduction of CT-based follow-up for patients treated with curative intent
Niels-Chr. G. Hansen (Odense C, Denmark), Stefan S. Jeppesen, Christian B. Laursen, Erik Jakobsen

Assembly members' meeting: Assembly 9 Allied respiratory professionals
Chairs: Irene Steenbruggen (Zwolle, Netherlands), Martijn A. Spruit (Horn, Netherlands)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:15-19:15</td>
<td>INDUSTRY EVENING SYMPOSIUM</td>
<td>1</td>
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<tr>
<td>17:30-19:00</td>
<td>INDUSTRY EVENING MINI SYMPOSIUM</td>
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</table>
Skills workshop: SW7 Cardiopulmonary exercise test interpretation - tips and pitfalls FULLY BOOKED

**Aims**: Access educational materials here to identify “typical” patterns of response to cardiopulmonary exercise testing and to show how to discriminate these from “anomalous” response profiles that can cause misinterpretation of test results.

**Disease(s)**: Sleep and breathing disorders

**Method(s)**: Physiology  Pulmonary function testing

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs**: Pierantonio Laveneziana (Paris Cedex 13, France)

### Introduction

**Relationship between oxygen uptake and work rate**
Richard Casaburi (Rancho Palos Verdes, United States of America)

**Anaerobic/lactate threshold**
Susan Ward (Crickhowell, United Kingdom)

**Breathing pattern and dynamic hyperinflation**
Pierantonio Laveneziana (Paris Cedex 13, France)

**Ventilatory efficiency**
J. Alberto Neder (Kingston (ON), Canada)

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Skills workshop: SW8 Cardiopulmonary exercise test interpretation - tips and pitfalls FULLY BOOKED

**Aims**: Access educational materials here to identify “typical” patterns of response to cardiopulmonary exercise testing and to show how to discriminate these from “anomalous” response profiles that can cause misinterpretation of test results.

**Disease(s)**: Sleep and breathing disorders

**Method(s)**: Physiology  Pulmonary function testing

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs**: Pierantonio Laveneziana (Paris Cedex 13, France)

### Introduction

**Relationship between oxygen uptake and work rate**
Paolo Palange (Rome, Italy)

**Anaerobic/lactate threshold**
Harry Rossiter (Hermosa Beach, United States of America)

**Breathing pattern and dynamic hyperinflation**
Denis O'Donnell (Kingston (ON), Canada)

**Ventilatory efficiency**
Paolo Onorati (Alghero (SS), Italy)

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Skills workshop: SW9 Cardiopulmonary exercise test interpretation - tips and pitfalls FULLY BOOKED

**Aims**: Access educational materials here to identify “typical” patterns of response to cardiopulmonary exercise testing and to show how to discriminate these from “anomalous” response profiles that can cause misinterpretation of test results.
Disease(s) : Sleep and breathing disorders
Method(s) : Physiology  Pulmonary function testing
Tag(s) : Clinical
Target audience : Clinical researcher, Lung function technologist, Paediatrician, Physiologist, Physiotherapist, Student, Trainee, Adult pulmonologist/Clinician
Chairs : Susan Ward (Crickhowell, United Kingdom)

Introduction

Relationship between oxygen uptake and work rate
Richard Casaburi (Rancho Palos Verdes, United States of America)

Anaerobic/lactate threshold
Harry Rossiter (Hermosa Beach, United States of America)

Breathing pattern and dynamic hyperinflation
Denis O'Donnell (Kingston (ON), Canada)

Ventilatory efficiency
Paolo Onorati (Alghero (SS), Italy)

Session 209  08:00 - 10:20

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW10 Thoracic ultrasound FULLY BOOKED

Aims : Access educational materials here to provide an update on thoracic ultrasound knowledge and an opportunity to practise basic hands-on skills using training models, simulators, volunteers and patients.

Disease(s) : Thoracic oncology
Method(s) : Imaging
Tag(s) : Clinical
Target audience : Radiologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs : Najib M. Rahman (Oxford, United Kingdom)

Introduction

Normal thoracic cavity
Christian B. Laursen (Odense, Denmark), Sophie Laroumagne Dumetre (Marseille, France)

Pleural effusion and/or pleural thickening
Horiana Grosu (Houston, United States of America), Gilles Mangiapan (Creteil, France)

Case studies
John Wrightson (Oxford, United Kingdom)

Guided pleural aspiration and lymph node biopsy using models
Rahul Bhatnagar (Bristol, United Kingdom), Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom)

Session 236  10:40 - 13:00

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW11 Thoracic ultrasound FULLY BOOKED

Aims : Access educational materials here to provide an update on thoracic ultrasound knowledge and an opportunity to practise basic hands-on skills using training models, simulators, volunteers and patients.

Disease(s) : Thoracic oncology
Method(s) : Imaging
Tag(s) : Clinical
Target audience : Radiologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs : Najib M. Rahman (Oxford, United Kingdom)

Introduction

Normal thoracic cavity
Konstantina Kontogianni (Heidelberg, Germany), Damien Basille (Amiens, France)
Pleural effusion and/or pleural thickening  
Ioannis Psallidas (Oxford (Oxfordshire), United Kingdom), Sophie Laroumagne Dumetre (Marseille, France)  

Case studies  
Najib M. Rahman (Oxford, United Kingdom)  

Guided pleural aspiration and lymph node biopsy using models  
Rahul Bhatnagar (Bristol, United Kingdom), Anna Bibby (Bristol (Avon), United Kingdom)  

7.3V Session 331  
14:30 - 16:50  
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Skills workshop: SW12 Thoracic ultrasound FULLY BOOKED

Aims: Access educational materials here to provide an update on thoracic ultrasound knowledge and an opportunity to practise basic hands-on skills using training models, simulators, volunteers and patients.

Disease(s): Thoracic oncology

Method(s): Imaging

Tag(s): Clinical

Target audience: Radiologist, Thoracic surgeon, Adult pulmonologist/ Clinician, Trainee

Chairs: Nick Maskell (Bristol (Avon), United Kingdom)

Introduction 3229

Normal thoracic cavity  
Christian B. Laursen (Odense, Denmark), Horiana Grosu (Houston, United States of America) 3230

Pleural effusion and/or pleural thickening  
Gilles Mangiapan (Creteil, France), Anna Bibby (Bristol (Avon), United Kingdom) 3231

Case studies  
John Wrightson (Oxford, United Kingdom) 3232

Guided pleural aspiration and lymph node biopsy using models  
Konstantina Kontogianni (Heidelberg, Germany), Nick Maskell (Bristol (Avon), United Kingdom) 3233

7.3U Session 257  
11:00 - 13:00  
Registration for this session is additional to the congress registration fee and is €49 on site, €43 standard.

Professional development: PDW5 Teamability: become an effective team leader and member

Aims: Access educational materials here Participants will increase their ability to identify characteristics of effective and ineffective teams, team leaders and team members; to identify their own and others’ style of team interaction and how to bridge across styles; to utilise skills in relationship building, managing differences and building trust and collaboration; and to collaboratively lead and participate in healthcare teams.

Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Public health  Pulmonary function testing  Respiratory intensive care  Surgery  Transplantation

Target audience: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Pathologist, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/ Clinician

Chairs: Louellen N. Essex (Wayzata, United States of America), Gernot G.U. Rohde (Frankfurt am Main, Germany)

What makes a healthcare team effective?  
Louellen N. Essex (Wayzata, United States of America) 2283

Stages of team development: how to lead and participate effectively  
Louellen N. Essex (Wayzata, United States of America) 2284

Question and answer session  
Louellen N. Essex (Wayzata, United States of America) 2285

Action planning: how to apply what has been learned  
Louellen N. Essex (Wayzata, United States of America) 2286
Professional development: PDW6 Supporting patients with behaviour change strategies

Engagement of patients in healthy behaviours

**Aims**: Access educational materials here. To improve the competence and performance of clinicians by promoting their active learning of empathic communication and motivational interviewing and by helping them to develop strategies to incorporate these techniques into patient care. This interactive learning activity will focus on how to effectively counsel patients to improve their overall lifestyle, including their diet, exercise and alcohol and tobacco use. Specific aims are as follows: to increase knowledge about empathic listening and motivational interviewing strategies and resources; to increase skills in using empathic listening and motivational interviewing strategies; and to increase the application of empathic listening and motivational interviewing strategies and resources.

**Disease(s)**: Airway diseases, Sleep and breathing disorders

**Method(s)**: General respiratory patient care

**Tag(s)**: Clinical

**Target audience**: Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiotherapist, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs**: Sofia Belo Ravara (Covilhã, Portugal)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
<th>Session Code</th>
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</thead>
<tbody>
<tr>
<td>14:30</td>
<td>Introduction: why do we need to incorporate health behaviour change into clinical practice?</td>
<td>Sofia Belo Ravara (Covilhã, Portugal)</td>
<td>3234</td>
</tr>
<tr>
<td>14:45</td>
<td>Why empathy is important and how we can incorporate it into clinical practice</td>
<td>Timothy Milbrandt (Rochester, United States of America), Therese Shumaker (Rochester, United States of America)</td>
<td>3235</td>
</tr>
<tr>
<td>15:05</td>
<td>Using motivational interviewing in clinical practice to engage patients about health behaviour change</td>
<td>Timothy Milbrandt (Rochester, United States of America), Therese Shumaker (Rochester, United States of America)</td>
<td>3236</td>
</tr>
<tr>
<td>15:35</td>
<td>Exploring and enhancing motivation to quit smoking in smokers who are reluctant to quit</td>
<td>Therese Shumaker (Rochester, United States of America), Timothy Milbrandt (Rochester, United States of America)</td>
<td>3237</td>
</tr>
<tr>
<td>16:05</td>
<td>Exploring and enhancing motivation to reduce alcohol consumption and weight</td>
<td>Therese Shumaker (Rochester, United States of America), Timothy Milbrandt (Rochester, United States of America)</td>
<td>3238</td>
</tr>
<tr>
<td>16:35</td>
<td>Discussion and conclusion</td>
<td>Sofia Belo Ravara (Covilhã, Portugal), Therese Shumaker (Rochester, United States of America), Timothy Milbrandt (Rochester, United States of America)</td>
<td>3239</td>
</tr>
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Meet the expert: ME5 Lung cancer screening

**Aims**: Access educational materials here. To provide clear guidance on whom to screen and how to follow up, and to discuss different scenarios based on actual evidence while considering both pros and cons.

**Disease(s)**: Thoracic oncology

**Method(s)**: Endoscopy and interventional pulmonology, Imaging, Surgery

**Tag(s)**: Clinical

**Target audience**: Critical/Intensive care physician, General practitioner, Nurse, Radiologist, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician

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<th>Time</th>
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<th>Speaker</th>
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<tr>
<td>13:00</td>
<td>Lung cancer screening - where we are and how to implement it</td>
<td>Hans-Ulrich Kauczor (Heidelberg, Germany)</td>
<td>3193</td>
</tr>
</tbody>
</table>

Meet the expert: ME6 Control of breathing - hypoventilation during sleep, exercise and dyspnoea

**Ondine’s curse syndrome**
Aims: Access educational materials here to shed light on the poorly understood relationship between sleep-related life-threatening hypoventilation and its potential clinical consequences (e.g., dyspnoea); and to discuss pharmacological and non-pharmacological approaches that can modify this relationship both from a physiological point of view (the ventilatory response to hypercapnia and hypoxia) and a clinical point of view (improvement of dyspnoea and quality of life).

Disease(s): Sleep and breathing disorders
Method(s): Physiology Pulmonary function testing
Tag(s): Translational
Target audience: Clinical researcher, Lung function technologist, Physiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician
Chairs: Esther Irene Schwarz (Zürich, Switzerland)

13:00 Control of breathing - hypoventilation during sleep, exercise and dyspnoea
Christian Straus (Paris, France)

**Session 315**
13:00 - 14:00

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME7 Monitoring of home mechanical ventilation in neuromuscular disorders

Aims: Access educational materials here to present and discuss new criteria that are used to define nocturnal hypoventilation and effective ventilation for neuromuscular disorders.

Disease(s): Respiratory critical care Sleep and breathing disorders
Method(s): General respiratory patient care Pulmonary function testing Respiratory intensive care
Tag(s): Clinical
Target audience: Lung function technologist, Nurse, Physiotherapist, Adult pulmonologist/Clinician
Chairs: Marieke L. Duiverman (Groningen, Netherlands)

13:00 Monitoring of home mechanical ventilation in neuromuscular disorders
David Orlikowski (Garches, France)

**Session 317**
13:00 - 14:00

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME8 Diagnosing bronchiectasis and cystic fibrosis

Aims: Access educational materials here to show how to suspect and diagnose bronchiectasis by distinguishing between cystic fibrosis and bronchiectasis due to other causes while taking into consideration practical limitations (availability of diagnostic tests), level of care and patient preferences.

Disease(s): Respiratory infections Paediatric respiratory diseases
Method(s): General respiratory patient care Imaging
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Paediatrician, Patient, Physiotherapist, Radiologist, Trainee, Adult pulmonologist/Clinician
Chairs: Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain)

13:00 Diagnosing bronchiectasis and cystic fibrosis
Stefano Aliberti (Milan, Italy)

**Session 324**
13:15 - 14:15

Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.

Meet the expert: ME14 Bronchiolitis obliterans syndrome in immunodepressed patients

Aims: Access educational materials here To highlight the epidemiology of bronchiolitis obliterans syndrome of immunocompromised patients and to discuss the diagnostic and management challenges.

Disease(s): Airway diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Physiologist, Radiologist, Student, Trainee
Chairs: Davide Piloni (Pavia, Italy)

13:15 Bronchiolitis obliterans syndrome in immunodepressed patients
Anne Bergeron Lafaurie (Paris, France)
Challenging clinical cases: CC3 Lung cancer: personalised treatment and palliative care

**Aims**: Access educational materials here. To describe a sophisticated treatment for small cell lung cancer and how to integrate palliative care into routine lung cancer care. Both approaches may be suitable for larger patient cohorts.

**Disease(s)**: Thoracic oncology

**Method(s)**: Cell and molecular biology, General respiratory patient care, Imaging

**Tag(s)**: Clinical

**Target audience**: Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs**: Dragana M. Jovanović (Beograd, Republic of Serbia)

- **Managing the initial treatment and multiple relapses in a small cell lung cancer patient with limited disease**
  - Jair Bar (Tel-Aviv, Israel)

- **Integration of palliative care from the very beginning to the very end in a patient with metastasised non-small cell lung cancer**
  - Matthias Villalobos (Heidelberg, Germany)
**Disease(s):** Interstitial lung diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Radiologist, Pathologist

**Chairs:** Hilario Nunes (Bobigny, France)

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**Pulmonary vasculitis presenting as acute diffuse alveolar haemorrhage (DAH)**
Sara Colella (Teramo (TE), Italy)

**Pulmonary ANCA-associated vasculitis mimicking a lung tumour or diffuse lung metastases (with positive PET-CT scan)**
Raphaël Borie (Paris, France)

**Lung-limited Granulomatosis with polyangiitis (GPA) managed without immunosuppression**
Luis Ribeiro (London, United Kingdom)

**Pulmonary vasculitis and malignancy - a great masquerader and diagnostic dilemma**
Deepak Kumar Parjapat (Faridabad (Haryana), India)

**ANCA Associated Vasculitis in older patients**
Valentine Delmotte (Liège, Belgium)

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**7.3A Session 210 08:30 - 10:30**

**Grand round: Paediatric Grand Round**

**Aims:** To present paediatric cases with respiratory problems and typical and difficult questions. The audience will be engaged in discussions about the best clinical care and will receive an update on paediatric respiratory medicine.

**Disease(s):** Paediatric respiratory diseases

**Method(s):** Endoscopy and interventional pulmonology  General respiratory patient care  Imaging  Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Bart L. Rottier (Groningen, Netherlands), Monika Gappa (Wesel, Germany)

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**08:30 A 14-year-old girl with breathlessness**
Theofilos Polychronakis (Cambridge (Cambridgeshire), United Kingdom)

**09:00 A 12-year-old boy with therapy-resistant asthma**
Eva Ter Haar (Wilsele, Belgium)

**09:30 A 6-month-old boy with poor growth and tachypnoea**
Ignacio Iglesias-Serrano (Barcelona, Spain)

**10:00 A 6-day-old girl with tachypnoea and cyanosis**
Kamal Masarweh (, Israel)

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**7.3N Session 211 08:30 - 10:30**

**Symposium: State of the art session: Thoracic oncology**

**Aims:** The 2018 lung cancer state of the art session will provide new perspectives on issues in lung cancer that remain unsolved. The session will start with a profound review of recent findings about tumour biology and then present a comprehensive update on multimodal strategies in three prognosis-determining treatment areas.

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology  Endoscopy and interventional pulmonology  Epidemiology  General respiratory patient care  Imaging  Public health  Surgery  Transplantation

**Tag(s):** Translational

**Target audience:** Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Giulia Maria Stella (Pavia (PV), Italy), Dimitri Leduc (Bruxelles, Belgium)

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**08:30 The latest in lung cancer tumour biology**
Céline Mascaux (Allauch, France)

**09:00 Lung cancer and interstitial lung disease**
Jacques Cadranel (Paris Cedex 20, France)
09:25 Multimodal management of brain metastases in lung cancer
Torsten Gerriet Blum (Berlin, Germany)
1899

09:50 Rational approaches to pleural malignancies
Jan van Meerbeeck (Edegem (Antwerp), Belgium)
1900

10:15 ERS statement on harmonised standards for lung cancer registration and lung cancer services in Europe
Anna Rich (Nottingham (Nottinghamshire), United Kingdom)
1901

7.1A Session 212 08:30 - 10:30

Year in review: Therapeutic breakthroughs
Year in Review
Tag(s) : Clinical

Chairs : Eva Van Braeckel (Ghent, Belgium), Raffaele Scala (Arezzo, Italy), Matteo Bonini (London, United Kingdom)

08:30 High-flow nasal therapy in acute and chronic respiratory failure
Alexandre Demoule (Paris, France)
1902

09:00 Tezacaftor-ivacaftor for the treatment of cystic fibrosis: what's next?
Jane C. Davies (London, United Kingdom)
1903

09:30 Breathing training and inspiratory muscle training: a go or no go for patients with dyspnoea?
Daniel Langer (Leuven, Belgium)
1904

10:00 Pleural disease (with a focus on malignant pleural disease)
Nick Maskell (Bristol (Avon), United Kingdom)
1905

7.1B Session 213 08:30 - 10:30

Symposium: New trends in the management of difficult-to-wean patients
Multidisciplinary approach

Aims : to discuss new trends in the multidisciplinary approach to patients with chronic critical illnesses.

Disease(s) : Respiratory critical care
Method(s) : Respiratory intensive care
Tag(s) : Clinical

Target audience : Critical/Intensive care physician, Nurse, Physiotherapist, Adult pulmonologist/Clinician

Chairs : João Carlos Winck (Vila Nova de Gaia, Portugal), Lise Piquilloud (Lausanne, Switzerland)

08:30 Prolonged mechanical ventilation - definitions and outcome
Laurent Brochard (Toronto (ON), Canada)
1906

09:00 Why can my patient not be weaned from the ventilator?
Leo M.A. Heunks (Amsterdam, Netherlands)
1907

09:30 Evaluation of swallowing dysfunction and treatment with Passy-Muir valve
Christina Iezzi (London, United Kingdom)
1908

10:00 Challenges associated with whole body rehabilitation in difficult-to-wean patients
Michele Vitacca (Gussago (BS), Italy)
1909

7.3C Session 214 08:30 - 10:30

Symposium: Sleep apnoea: is it time for new therapies?

Aims : to describe new treatment alternatives to continuous positive airway pressure. New pathophysiological phenotyping studies of upper airway function in obstructive sleep apnoea (OSA) have opened the way to new treatment strategies. This session will examine these new possibilities and thereby provide an overview on the current and future developments in the treatment of OSA.

Disease(s) : Sleep and breathing disorders
Method(s) : Physiology
Tag(s) : Clinical

Target audience : Clinical researcher, Physiologist, Trainee, Adult pulmonologist/Clinician

Chairs : Renata L. Riha (Edinburgh (Edinburgh), United Kingdom), Anita Simonds (London, United Kingdom)
08:30 The physiological phenotypes of OSA - the PALM scale approach
Danny Eckert (Randwick (NSW), Australia)

09:00 Can we use drugs to modulate upper airway function in OSA?
Luigi Taranto Montemurro (Boston, United States of America)

09:30 Hypoglossal nerve stimulation
Olivier M. Vanderveken (Edegem (Antwerp), Belgium)

10:00 Mandibular advancement devices - short- and long-term effects
Marie Marklund (Umea, Sweden)

7.3Z1 Session 215 08:30 - 10:30
Symposium: Rare lung diseases
Joint ERN-LUNG/ERS symposium

Aims: The ERN-LUNG and the ERS have joined forces to fight rare diseases of the respiratory system. The aim of this joint session is to increase awareness of rare diseases of the respiratory system and to demonstrate the support that the ERN-LUNG can provide in rare lung diseases with respect to clinical care and research, cross-border advice to patients and care team members, cross-border consultations and cross-border referral.

Disease(s): Interstitial lung diseases, Pulmonary vascular diseases

Method(s): General respiratory patient care, Public health, Transplantation

Tag(s): Clinical

Target audience: General practitioner, Nurse, Paediatrician, Patient, Physiotherapist, Policy maker, Scientist (basic, translational), Thoracic surgeon, Adult pulmonologist/ Clinician

Chairs: Guy Brusselle (Ghent, Belgium), Marc Humbert (Paris, France)

08:30 Lung transplantation in rare lung diseases: the problem of chronic lung allograft dysfunction (CLAD)
Tobias Welte (Hannover, Germany)

09:00 What do patients expect from ERN-LUNG?
Gergely Meszaros (Budapest, Hungary)

09:30 From childhood to adulthood: growing up with a rare lung disease such as cystic fibrosis
Cornelis Kors van der Ent (Utrecht, Netherlands)

10:00 Rare diseases registries such as the Rare Lung Disease Registry Data Warehouse
Holger Storf (Frankfurt, Germany)

7.3B Session 216 08:30 - 10:30
Oral presentation: New modalities in asthma treatment

Disease(s): Airway diseases

Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Cell and molecular biology

Chairs: Mohankumar Thekkinkattil (Coimbatore (Tamil Nadu), India), Tiziana Patrizia Cremona (Bern, Switzerland)

OA1918 Evaluation in a severe asthma expert center improves asthma outcomes.
Camille Begne (Perigueux, France), Aurélien Justet, Laure Tabèze, Clairelyne Dupin, Catherine Neukirch, Raphaël Borie, Marie-Christine Dombret, Bruno Crestani, Camille Taillé

OA1919 Increased sputum FKBP51 gene expression following Azithromycin add-on therapy in asthma
Jodie Simpson (New Lambton, Australia), Stephany Sanchez-Ovando, Heather Powell, Kavita Pabreja, Ian Yang, John Upham, Paul Reynolds, Sandra Hodge, Alan James, Christine Jenkins, Matthew Peters, Guy Marks, Melissa Baraket, Peter Gibson

OA1920 Unbiased clinical cluster analysis of patients of ProAR Asthma Cohort.
Alvaro A. Cruz (Salvador (BA), Brazil), Aruna T. Bansal, Eduardo V. Ponte, Adelmir Souza-Machado, Paula C. Almeida, Valmar Biao-Lima, Stewart Bates, John H. Riley
Bronchial Thermoplasty Global Registry: One Year Results
Alfons Torrego Fernandez (Barcelona, Spain), Felix Herth, Ana M Munoz, Luis Puente, Nicola Facchiolongo, Stephen Bicknell, Mauro Novali, Stefano Gasparini, Martina Bonifazi, Keertan Dheda, Felipe Andreo, Jiří Votruba, David Langton, Javier Flandes, David Fielding, P. I. Bonta, Dirk Skowasch, Alvin Ing, Christian Schulz, Kaid Darwiche, Edmund McMullen, Fran Nolan, Robert Niven, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Martin Iversen (martin@iversen-net.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet, Copenhagen), Johan Malmsdrom (johan.malmsdrom@med.lu.se / Division of Infection Medicine, Department of Clinical Sciences Lund, Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science, Lund University, Lund).

SURFACTANT THERAPY IN PATIENTS WITH SEVERE UNCONTROLLED BRONCHIAL ASTHMA
Ekaterina Kozlova (Chita, Russian Federation), Alena Akulova, Olga Stepanova, Konstantin Shapovalov, Sergey Lukyanov, Oleg Rosenberg.

Cell type specific heat-shock-protein responses to bronchial thermoplasty in severe asthma treatment
Lei Fang (Basel, Switzerland), Lei Fang, Michael Tamm, Michael Roth, Daiana Stolz

Session 217 08:30 - 10:30
Hot topics: Pulmonary embolism: what we need to know
Aims: At the end of the session, attendees will be able to: (i) risk stratify patients with acute symptomatic pulmonary embolism (PE); (ii) identify patients with low-risk PE who might benefit from outpatient therapy; (iii) choose the right direct oral anticoagulant for the right patient with acute symptomatic PE; and (iv) identify patients with intermediate-risk PE who might benefit from early recanalisation procedures.

Disease(s): Pulmonary vascular diseases Respiratory critical care
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Patient, Student, Adult pulmonologist/Clinician
Chairs: David Jiménez Castro (Madrid, Spain), Marion Delcroix (Leuven, Belgium)

08:30 Helping the pulmonary embolism response team (PERT) determine the severity of PE in triage: guidelines
Olivier Sanchez (Paris, France)

09:00 Initial outpatient management of PE: who and how?
Luke Howard (London, United Kingdom)

09:30 Update on novel anticoagulants: indications, dosing alternatives and outcomes
Cecilia Becattini (Perugia (PG), Italy)

10:00 Advanced therapies for life-threatening PE: low-dose systemic thrombolysis, catheter-directed thrombolysis and extracorporeal membrane oxygenation (ECMO)
Mareike Lankeit (Mainz, Germany)

Session 218 08:30 - 10:30
Symposium: Cross-talk in the lung microenvironment: implications for chronic lung disease
Aims: to summarise the novel findings regarding the cross-talk in the lung microenvironment that were discussed at the ERS Research Seminar (February 2018, Berlin). A mechanistic understanding of the cell-cell and cell-microbe communications in the lung microenvironment will promote the development of novel preventative strategies or therapies for chronic lung disease. Therefore, this symposium will focus on different aspects of the cellular communication mechanisms in the lung that participate in health and disease, including communication via soluble factors and the transfer of extracellular vesicles. The influence of microbial factors on these communication mechanisms will also be discussed.

Disease(s): Airway diseases Respiratory infections
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Allergist, Clinical researcher, Paediatrician, Scientist (basic, translational), Student, Trainee
Chairs: Sabine Bartel (Borstel, Germany), Reinoud Gosens (Groningen, Netherlands)

08:30 Cellular cross-talk in the airway epithelial mesenchymal trophic unit
Donna E. Davies (Southampton (Hampshire), United Kingdom)
### 09:00 Gut-lung cross-talk in chronic respiratory disease
Philip Hansbro (Callaghan, Australia)

### 09:30 Early interventions with bacterial metabolites to prevent the development of chronic lung diseases
Susanne Krauss-Etschmann (Borstel, Germany)

### 10:00 Extracellular vesicles and their role in lung homeostasis and disease
Susanne Gabrielsson (Stockholm, Sweden)

#### 7:3Q Session 219 08:30 - 10:30

**Oral presentation: COPD and chronic respiratory disease: from misclassification to radiological findings**

**Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care

**Method(s):** Imaging, General respiratory patient care, Epidemiology, Public health

**Chairs:** Joan B Soriano (Madrid, Spain), Anne Lindberg (Boden, Sweden)

**OA1932** Late Breaking Abstract - The effects of smoking cessation and FAM13A gene susceptibility on lung function decline: A 16-year follow-up study among male smokers
Soriul Kim (Ansan, Republic of Korea), Ki Yeol Lee, Seung Ku Lee, Hyeon Min Ahn, Regina Ey Kim, Chol Shin

**OA1933** Beta-blocker, aspirin and statin usage after myocardial infarction in patients with and without COPD. A nationwide analysis from 1995 to 2015 in Denmark
Daniel Rasmussen (Glumso, Denmark), Uffe Bodtger, Morten Lamberts, Peter Lange, Magnus Jensen

**OA1934** Changing causes of mortality for people with chronic respiratory diseases
Alicia Gayle (London, United Kingdom), Eleanor Axson, Chloe Bloom, Vidya Navaratnam, Jennifer Quint

**OA1935** Decrease in prevalence of COPD in Sweden after decades of decrease in smoking
Helena Backman (Lulea, Sweden), Linda Ekerljung, Berne Eriksson, Caroline Stridsman, Roxana Mincheva, Linnea Hedman, Stig Hagstad, Anne Lindberg, Anders Ullman, Eva Ronmark, Bo Lundback

**OA1936** Self-reported intake of fruit and vegetables and risk of chronic obstructive pulmonary disease: a nation-wide twin study
Howraman Meteran (København, Denmark), Simon Francis Thomsen, Martin R Miller, Jacob Hjelmborg, Torben Sigsgaard, Vibeke Backer

**OA1937** Coagulation markers in COPD
Gunnar Reksten Husebø (Fana, Norway), Esteban Gabazza, Corina D'Alessandro, Marianne Annerud, Masaaki Toda, Rune Gromseth, Per S. Bakke, Tomas Mikal Lind Eagan

**OA1938** Misdiagnosis of OADs in community patients with inhaled prescription medication for shortness of breath
William Midodzi (St. John's (NL), Canada), Jenese Nugent, Michael Asamoah-Boaheng, Zhiwei Gao, Jamie Farrell

**OA1939** Increase in hospital admissions in smokers with Interstitial Lung Abnormalities in the Danish Lung Cancer Screening Trial (DLCST)
Nils Hoyer (København NV, Denmark), Laura Thomsen, Mathilde Wille, Torgny Wilcke, Asger Dirksen, Jesper Pedersen, Zaigham Saghir, Haseem Ashraf, Saher Shaker

#### 7:3M Session 220 08:30 - 10:30

**Oral presentation: Novel drug targets for asthma and COPD**

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care, Physiology

**Chairs:** Ian M. Adcock (London, United Kingdom), Loes E. M. Kistemaker (Groningen, Netherlands)

**OA1940** Late Breaking Abstract - RPL554, a first-in-class dual PDE3/4 inhibitor, causes significant bronchodilation and symptom relief: a Phase 2b COPD study
Dave Singh (Manchester, United Kingdom), Brian Maurer, Fernando Martinez, Kenneth Newman

**OA1941** Anti-inflammatory effects of the JAK inhibitor tofacitinib in two murine house dust mite -driven models of asthma.
Anna Rita Pisano (Parma (PR), Italy), Daniela Miglietta, Fabio Bignami, Andrew Allen, Matteo Biagetti, Giancarlo Aquino, Chiara Carnini, Maurizio Civelli, Gino Villetti

**OA1942** Hydrogen sulphide donors prevent hyperreactivity of mice tracheas in an in vitro lipopolysaccharide-induced inflammation model
Yasemin Karaman-Kutluay (Ankara, Turkey), Yesim Kaya-Yasar, Turgut Emrah Bozkurt, Inci Sahin-Erdemli
OA1943  Aerosolized TLR7 Imidazoquinoline Agonist Bronchodilates In Vivo
Matthew Drake (Portland, United States of America), Becky Proskocil, Katherine Lebold, Emily Blum, Allison Fryer, David Jacoby

OA1944  IL-33 blockade mediators of persistence and exacerbation of chronic airway inflammation.
Jeanne Allinne (Tarrytown, United States of America), George Scott, Dylan Birchard, Amit Agrawal, Li-Hong Ben, Wei Keat Lim, Jee Hae Kim, Vishal Kamat, Andrew Murphy, Matthew Sleeman, Jamie Orengo

OA1945  Targeting NADPH oxidase-2 reduces cigarette smoke-induced lung inflammation and skeletal muscle wasting in mice
Ivan Bernardo (Melbourne (VIC), Australia), Samantha Passsey, Huei Jiunn Seow, Steven Bozinovski, Ross Vlahos

OA1946  Efficacy of a novel PI3Kd inhibitor, DS-1515 in animal models of asthma
Masakatsu Suzuki (Tokyo, Japan), Kiyoshi Morimoto, Shinminose Yamada, Puneet Chopra, Sandeep Sinha, Shashi Kant Singh, Harikesh Kalonia, Somnath Wagh, Rajkumar Shirumalla, Manish Diwan

OA1947  Late Breaking Abstract - Analysis of chronic occupational exposure in non-smoking insulators
Samineh Kamravaei (Edmonton, Canada), Kawtar Idrissi Machichi, Noushin Miandashti, Jennifer Spring, Linda Henderson, Meghan Duick, Lei Pei, Fadi Khadour, Paige Lacy, Muhammad T. Naseem, Lyle Melenka

OA1948  Influence of childhood asthma and allergies on occupational exposure in early adulthood: a prospective cohort study
Orianne Dumas (Villejuif, France), Nicole Le Moual, Adrian J Lowe, Caroline J Lodge, Jan-Paul Zocks, Hans Kromhout, Bircan Erbas, Jennifer Perret, Shymal Dharmage, Geza Benke, Michael A Abramson

OA1949  Using digital and social media to highlight the risks of occupational exposures as a cause of lung diseases
Emma Thompson (Sheffield (South Yorkshire), United Kingdom), Pippa Powell, Dick Heederik, Martine Van Tongerden, Sara De Matteis, Saskia Weldman, Dan Smyth, Ewelina Szmytke, David Fishwick

OA1950  Update of the British Occupational Health Research Foundation (BOHRF) guidelines on occupational asthma.
Sara De Matteis (London, United Kingdom), Johanna Feary, Jim Macfarlane, Diane Romano-Woodward, Joanna Szram, Gareth Walters, Ruth Wiggins, Paul Cullinan

OA1951  Work tasks and occupations as risk factors for asthma in a sample of urban healthcare workers
Paul K. Henneberger ( Morgantown, United States of America), Morgan Caridi, Michael Humann, Xiaoming Liang, Feng-Chiao Su, Aleksandr Stefaniak, Ryan Lebouf, Marcia Stanton, Abbas Virji

OA1952  Effect of welding fumes on rhinitis symptoms and nasal patency: Quebec apprentice cohort study
Eva Suartha (Montréal (Québec), Canada), Mahsa Taghiakbari, Alfi Afadiyanti Parfi, Meshack Achoore, Mariam El-zein, Mounia Rhazi, Denyse Gautrin, Roberto Castano

OA1953  Functional, Inflammatory and Imaging Impairments due to Artificial Stone Dust (ASD) ultrafine particles(UFP) exposure.
Elizabeth Fireman (Tel-Aviv, Israel), Noa Ophir, Amir Bar Shai, Rafi Korenstein, Mordec Kramer

Jill Murray (Johannesburg, South Africa), Ndlovu, Guy A Richards

OA1955  Late Breaking Abstract - Correlation of sputum microRNA-144 expression levels with treatment response among pulmonary tuberculosis patients
R Vimal Raj (Salem (Tamil Nadu), India), T S Anitha, Ranganadin Pajanivel, Chandrasekar Adithan, K Surendra Menon
Isoniazid mono-resistance negatively affects tuberculosis treatment outcomes in Europe
Marieke van der Werf (Stockholm, Sweden), Basel Karo, Anke Kohlenberg, Csaba KöDmöN, Maria Korzeniewska-Kosela, Dimitrios Papaventsis, Ivan Soloviev, Dick Van Soolingen

Management of tuberculosis in the European Union: a multicentre audit
Senia Rosales-Klintz (Solna, Sweden), Lia D’Ambrosio, Rosella Centis, Remi Verduin, Massimo Amicosante, Ana Maria Correia, Andra Cirule, Raquel Duarte, Blagovesta Gadzheva, Gina Gualano, Heinke Kunst, Fabrizio Palmieri, Vija Riekstina, Donka Stefanova, Simon Tiberi, Giovanni Sotgiu, Giovanni Battista Migliori, Marieke J. Van Der Werf

Clinical significance of low serum isoniazid level among the patients with drug-sensitive pulmonary tuberculosis who showed delayed smear or culture conversion.
Ju Sang Kim (Incheon, Republic of Korea), Yong Hyun Kim, Jin Woo Kim, Jick Hwan Hah, Ah Young Shin, Hyung Woo Kim, Jung Hyun Ahn

Protective capacity of a new TB vaccine
Vladislav Gergert (Moscow, Russian Federation), Atadjan Ergeshov, Vladimir Yeremeev

Short 12-month regimen with intravenous linezolid for MDR-TB: treatment outcomes and first follow up results.
Nataliia Lytvynenko (Kyiv, Ukraine), Hanna Varytska, Maryna Pogrebna, Yulia Senko, Oksana Chobotar

Regulation of apoptosis via the PARK7 interactome in peripheral blood mononuclear cells donated by tuberculosis patients vs. controls and the response to treatment: a systems biology approach.
George Vavougios (Larissa, Greece), Sotirios Zarogiannis, Karen Krogfelt, Konstantinos Gourgoulianos

Poster discussion: Pleural diseases and pneumonia: what's new?

Disease(s) : Airway diseases, Respiratory infections, Respiratory critical care, Respiratory infections

Method(s) : Surgery, General respiratory patient care, Epidemiology, Cell and molecular biology

Chairs : Francesco Blasi (Milan, Italy), Nikolaos M. Siafakas (Heraklion (Crete), Greece)

Late Breaking Abstract - Etiology of nosocomial pneumonia in multidisciplinary hospital
Andrey Petrov (St. Petersburg, Russian Federation), Wendi Quintana, Pablo Mosquera, Svetlana Rachina, Zhanna Kobalava, Tatyana Dmitrova, Yulia Yanovich, Ludmila Ezhova

Management of complex pleural space infections: As the pendulum swings
Anee Sophia Jackson (Seattle, United States of America), Joshua R Rayburn, Carson C Fuller, Candice L Wilshire, Christopher R Gilbert, Brian E Louie, Ralph W Aye, Eric Vallières, Alex S Farivar, Adam J Bograd, Jed A Gorden

Bedside Ultrasound and Pigtail Catheters for Management of Pleural Effusion in Geriatric Population
Edward Altman (Nahariya, Israel), Boris Svirsky, Subhi Azzam, Alexander Samokhvalov, Ronny Makhoul, Edward Kaykov

Efficacy of a multiplex bacterial PCR in identifying pathogens in pleural empyema
Léo Franchetti (Basel, Switzerland), Desiree Schumann, Michael Tamm, Kathleen Jahn, Daiana Stolz

Digital airflow measurement early in treatment course for spontaneous pneumothorax predicting surgical referral
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Magda Laskawiec, Najib Rahman

Different approaches of chest drainage in the management of the primary spontaneous pneumothoraces.
Nicolas Carnot (Toulouse, France), Marion Dupuis, Sandrine Pontier, Florian Laborde, Laurent Brouchet, Alain Didier

Spontaneous pneumothorax – 5 years review
Maria João Freitas Ferreira Araújo (Guimarães, Portugal), Filipa Aguiar, Raquel Pereira, Joana Lages, Ana Luisa Vieira, Lurdes Ferreira, João Cunha

Alpha-antitrypsin deficiency in primary spontaneous pneumothorax
Eunice Maria Ferreira Da Eira Marques Dias (Pombal, Portugal), Ana Filipa Costa, Lilía Santos

The use of antiviral drug Ribavirin in cases of viral-bacterial community acquired pneumonia
Mikhail Khartinov (St. Petersburg, Russian Federation), Andrey Nikolayev, Mikhail Zhurkin, Vladimir Ivanov, Yuriy Rudakov
PA1972 Phagocytic ability of granulocytes and monocytes in elderly patients with community acquired pneumonia
Elif Torun Parmaksiz (Istanbul, Turkey), Ali İnal, Benan Çağlayan, Coşkun Doğan, Ali Fidan, Nesrin Kiral, Sevda Cömert

PA1973 Risk factors for early onset severe community-acquired pneumonia complications
Vaida Averjanovaite (Vilnius, Lithuania), Rūta Saikalytė, Giedre Cincelevičiūtė, Gabrielė Kučinskaitė, Domantė Mačiulytė, Andrius Kontrimas, Vaida Maksimaitytė, Edvardas Danila

PA1974 The utility of CURB-65 scoring in the acute management of radiologically proven pneumonia
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pradeep Mallisetty, Touqeer Raja, Hammad Tariq, James Biggs, Tricia Balram, Alice Castle, Divyanish Dogar, Biman Chakraborty, Rahul Mukherjee

PA1975 Influence the phosphatidylcholine treatment program on surfactant protein D levels in hypertensive patients with community-acquired pneumonia
Olga Shtepa (Dnipropetrovsk, Ukraine), Tetyana Pertseva

PA1976 Antibiotic treatment in community and hospital acquired pneumonia complicated by Clostridium difficile infection.
kasia zycinska (Warsaw, Poland)

PA1977 Comparative laboratory evaluation of systemic inflammatory respond in patients with opium drugaddiction and community-acquired pneumonia
Oksana Virtsaniuk (Vinnitsa, Ukraine), Yuriy Mostovoy, Anastasiia Hunko

PA1978 Incidence and predictors of QT interval prolongation in the intensive care units of a tertiary pulmonary center
Shadi Baniasadi (Tehran, Islamic Republic of Iran), Zeinab Hosseinpoor, Behrooz Farzanegan, Seyyed Reza Seyyedi, Mehdi Rajabi, Habib Emami

PA1979 Evaluation of a bespoke and innovative model of care to reduce emergency admissions for community acquired pneumonia.
Sarah Haines (Altrincham (Cheshire), United Kingdom), Onnor Hampson, Emma Rickards, Dennis Wat

PA1980 Pulmonary outcomes in adults with a history of Bronchopulmonary Dysplasia (BPD)
Petrá Um-Bergström (Sollentuna, Sweden), Jenny Hallberg, Melvin Pourbazargan, Eva Berggren-Broström, Giovanni Ferrara, Maria Eriksson, Sven Nyrén, Gunnar Lilja, Anders Lindén, Åsa Wheelock, Erik Melén, Magnus Sköld

Terminal 7 Session 224 08:30 - 10:30
Oral presentation: Determinants of physical activity behaviour in patients with COPD and the physiotherapist as a physical activity coach

Disease(s): Airway diseases
Method(s): Public health Epidemiology General respiratory patient care

OA1981 Associations of sedentary behaviour and physical activity phenotypes with health outcomes in COPD: a cohort study
Zoe McKeough (Sydney (NSW), Australia), Sonia Cheng, Jennifer Alison, Christine Jenkins, Emmanuel Stamatakis

OA1982 Characterization of COPD patients with severe airflow limitation and high physical activity
Elena Gimeno-Santos (Barcelona, Spain), Isabel Blanco, Robert Rodriguez-Roisin, Ane Arbillaga-Etxarri, Eva Balcells, Anaël Barberan-Garcia, Marta Benet, Alicia Marin, Monica Monteagudo, Pilar Ortega, Diego A. Rodriguez, Pere J Simonet, Pere Toran, Judith Garcia-Aymerich

OA1983 Heterogeneity of physical activity and its relationship with clinical outcomes in patients with COPD
Karina Couto Furlanetto (Londrina (PR), Brazil), Raquel Pastrello Hirata, Lorena Paltanin Schneider, José Roberto Lopes, Mariana Pereira Bertochte, Joice Mara Oliveira, Camila Bonomo, Felipe Machado, Leticia Fernandes Belo, Thais Paes, Antonor Rodrigues, Nidia Aparecida Hernandez, Fabio Pitta

OA1984 Physical activity in patients with COPD: a reference frame based on functional capacity
Heleen Demeyer (Leuven, Belgium), Nicola Sante Diciolla, Matthias Loeckx, Fernanda Rodrigues, Astrid Blondeel, Daniel Langer, Rik Gosselink, Wim Janssens, Thierry Troosters

OA1985 Improving walking capacity promotes physical activity during pulmonary rehabilitation
Susan Lassche (Gossebeek, Netherlands), Jeannette Peters, Hanneke Van Helvoort, Alex Van 'T Hul, Jeroen Van Hees

OA1986 Physical activity enhancing programme (PAEP) in COPD – a randomised controlled trial
Leandro Mantoani (Edinburgh (Edinburgh), United Kingdom), Brian Mckinstry, Susan McNarry, Susan Mullen, Susan Begg, Shalu Saini, Mareike Klee, Rita Priori, William Macnee, Roberto Rabinovich
OA1987: Determinants of study completion and response to a 12-month physical activity intervention in COPD
Maria Koreny (Madrid, Spain), Helleen Demeyer, Ane Arbilla-Betarri, Elena Gimeno-Santos, Anael Barberan-Garcia, Marta Benet, Eva Ballells, Eulàlia Borrell, Diego A Rodriguez, Pere Vall-Casas, Jordi Vilarró, Robert Rodriguez-Roisin, Judith Garcia-Aymerich

7.2A Session 225 08:30 - 10:30
Poster discussion: Integrating pharmacological and non-pharmacological management in COPD: are we there yet?

Disease(s): Airway diseases
Method(s): Cell and molecular biology, Public health, Epidemiology, General respiratory patient care

PA1988: Late Breaking Abstract - A randomized clinical study to assess the impact of budesonide/formoterol (BUD/FM) pMDI medication reminders on adherence in COPD patients
Gerard J. Criner (Philadelphia, United States of America), Therese Cole, Kristen Hahn, Kari Kastango, James Eudicone, Ileen Gilbert

PA1989: Evaluation of safety, tolerability, pharmacokinetics, and food effect of Danirixin oral tablets in Japanese elderly healthy subjects
Yuki Matsuzawa (Tokyo, Japan), Hiroyuki Ogura, Takashi Nagakubo, Akira Wakamatsu, Claire Ambrey, Bruce Miller, Yotaro Numachi

PA1990: Population health impact of Indacaterol/Glycopyrronium over 4 years in chronic obstructive pulmonary disease
Florian S. Gutzwiller (Basel, Switzerland), Konstantinos Kostikas, Emilie Grueen, Manisha Sekharan

PA1991: Risk of exacerbation and pneumonia with single inhaler triple versus dual therapy in IMPACT
Mark Dransfield (Birmingham, United States of America), Courtney Crim, Gerard Criner, David Halpin, Meilan Han, C. Elaine Jones, Sally Kilbride, Peter Lange, David Lipson, David Lomas, Fernando Martinez, David Singh, Robert Wise

PA1992: Eosinophils as a predictor of mepolizumab treatment responses in COPD
Ian Douglas Pavord (Oxford, United Kingdom), Gerard Criner, Huib Kerstjens, Eric Bradford, Stephanie Schweiker Harris, Oliver Keene, Bhapita Mayer, David Rubin, Steven Yancey, Daniel Bratton

PA1993: Reduced glucocorticoid receptor binding affinity in blood lymphocytes and monocytes of COPD patients
Anatoli Tahanovich (Minsk, Belarus), A.G. Kadushkin, L.V. Movchan, V.V. Levandovskaya

PA1994: Real-life data on COPD treatment
Leila Karimi Gazafroudi (Rotterdam, Netherlands), Esmé J Baan, Tiana Geeraerd, Johan Van Der Lei, Bruno H C Stricker, Guy G Brusselle, Lies Lahousse, Katia M Verhamme

PA1995: Personalized treatment through an inhaler device, adjustable to patient's respiratory profile
Konstantinos Zarogoulidis (Thessaloniki, Greece), Paul Zarogoulidis, Stavrula Rozou, Konstantinos Porpodis, Kelly Domvri, Nikolaos Michailidis, Savvas Petanidis, Efrosini Kieoseoglou, Dimitra Psalla

PA1996: Single inhaler triple therapy in patients with COPD: patient-reported dyspnoea and health status from the IMPACT Trial
Maggie Tabberer (Uxbridge, Middlesex), United Kingdom, Christine Elaine Jones, Sally Kilbride, Gerard J Criner, Peter Lange, Meilan K Han, Fernando Martinez, David A Lipson

PA1997: FACTORS INFLUENCING PHARMACOLOGICAL TREATMENT IN COPD PATIENTS ENROLLED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME (IDMP)
Maurizio Moretti (Modena, MO, Italy), Sara Balestracci, Manuela Latorre, Anna Porcu, Alberto Rocchi

PA1998: Can a telemonitoring system lead to decreased hospital admissions in elderly patients?
Johan Lyth (Linköping, Sweden), Leili Lind, Daniel Karlsson, Lennart H. Persson, Ann-Britt WiréHn

PA1999: An evaluation of ‘care bundles’ as a means of improving hospital care for patients with COPD: results of a multi-centre study in the UK
James Calvert (Bristol, United Kingdom), Katherine Morton, Emily Sanderson, Padraig Dixon, Sue Jenkins, Stephanie Maceineil, Chris Metcalfe, Alison Shaw, Melanie Chalder, William Hollingsworth, Jonathan Benger, Sarah Purdy

PA2000: Implementation of an integrated care pathway based in a population health approach in Bilbao for Chronic Obstructive Pulmonary Disease patients
Maria Mar Martinez (Bilbao, Bizkaia, Spain), Ignacio Arriaga-Lariz, Gemma Fernández-Peñalba

PA2001: Cost-effectiveness analysis of a Home-based disease management intervention for patients with severe COPD alongside the COMET study.
Denis GRANADOS (Gentilly, France), Jean Bourbeau, Romain Kessler, Isabelle Durand-Zaleski, Stéphane Roze
Clinical management of patients newly diagnosed with COPD through targeted case finding and routine care: a longitudinal analysis of the TargetCOPD trial
Shamil Haroon (Birmingham (West Midlands), United Kingdom), Andrew Dickens, Peymane Adab, Alexandra Enocson, David Fitzmaurice, Rachel Jordan

Healthcare resource consumption in Italian patients with COPD: The MISTRAL study
Paolo Morini (Imola (BO), Italy), Giuseppe Vallo, Giosue Catapano, D. R. Bonardi, Carlo Pomari, Francesco Tursi, Marta Bartezaghi, P. A. Porpiglia

Comparison of Clinical Efficacy and Safety between ultraLABAs and ultraLAMAs in Patients with COPD: A Systemic Review with a Meta-Analysis of Randomized Controlled Trials
EUNYEONG CHO (Seoul, Republic of Korea), Se Yong Kim, Noeul Kang, Yunjoo Im, Min-Ji Kim, Seonwoo Kim, Dong Ah Park, Kwang Ha Yoo, Yong Bum Park, Ji Ye Jung, Hyun Lee, Hye Yun Park, Seong Yong Lim, Hye Kyeong Park

Generating patient insights in chronic obstructive pulmonary disease (COPD) with social media listening study
Florian S. Gutzwiller (Basel, Switzerland), Florian S. Gutzwiller, Jean-Bernard Gruenberger, Vinay Preet Kaur, Purnima Pathak, Alankanda Mudumby, Nigel S. Cook

7.2B Session 226 08:30 - 10:30
Poster discussion: Clinical determinants and biomarkers of COPD
Disease(s): Airway diseases, Respiratory critical care
Method(s): Epidemiology, Public health, Cell and molecular biology, General respiratory patient care
Chairs: Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Eduardo Márquez Martín (Sevilla, Spain)

Adding budesonide to formoterol reduces risk of clinically important deteriorations (CID) in moderate to severe COPD
Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Dave Singh, Christine Jenkins, Stefan Peterson, Thomas Bengtsson, Peter Wessman, Malin Fagerås

Prognostic significance of obstruction severity in COPD patients admitted to coronary artery bypass grafting.
Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Aleksandra Balitskaya, Antonina Berdyugina, Valeryi Elykomov, Andrew Zateev

Monitoring antioxidant enzyme activity in patients with COPD exacerbations
Balazs Antus (Budapest, Hungary), Csilla Paska, Imre Barta

GOLD ABCD assessment tool: Comparison of 2013 and 2017 classifications in the UK Clinical Practice Research Datalink (CPRD)
Alexander Mathioudakis (Manchester, United Kingdom), Jorgen Vestbo, Alicia Gayle, Scott Dickinson, Kevin Morris, Samantha Webster, Chris Poole

Serum amyloid A in patients with stable chronic obstructive pulmonary disease
Marta Maskey-Warzęchowska (Warszawa, Poland), Renata Rubinsztajn, Tadeusz Przybyłowski, Krzysztof Karwat, Patrycja Nejman-Gryz, Ryszarda Chazan

Relationship between Volatile Organic Compounds (VOCs) in exhaled breath determined by Proton Transfer Reaction Time of Flight Mass Spectrometry (PTR-TOF-MS), clinical characteristics and airway inflammation in COPD
Liesl Carr (Leicester (Leicestershire), United Kingdom), Luke Bryant, Ahmed Yousuf, Rebecca Cordell, Michael Wilde, Salman Siddiqui, Paul Monks, Christopher Brightling

Treatment response in COPD – does FEV1 say it all? An analysis of the CRYSTAL trial
Konstantinos Kostikas (Basel, Switzerland), Timm Greulich, Claus F. Vogelmeier, Alexander Mackay, Nadine Lossi, Maryam Aalamin-Mattheis, Xavier Nune, Veronica Anna Pagano, Francesco Patalano, Andreas Clemens

Longitudinal measurements of blood eosinophils in relation to COPD outcomes
Jens Ellingsen (Uppsala, Sweden), Christi Janson, Kristina Bröms, Karin Lisspers, Björn Stållberg, Mariecc o Högman, Andre Malinoveschi

Eosinophils and acute exacerbation of COPD: a potent biomarker for patients at increased risk. Preliminary reports.
Evgenia Papathanassoustou (ATHENS, Greece), Andriana Papaioannou, Georgios Hillas, Eleftheria Mizi, Petros Bakakos, Vasiliki Apollonatou, Galatea Verykokou, Nikos Roussakis, Zoi Tsiliogianni, Konstantinos Kostikas, Spyros Papiris, Stylianos Loukides

Impact of Eosinophilia and Time on Lung Function Decline in Adult Asthma
Florence Schleich (Liège, Belgium), Sophie Graff, Catherine Moermans, Renaud Louis
PA2018  EOSINOPHIL COUNT AND FeNO AS PREDICTORS OF EXACERBACTIONS IN COPD
Bernardino Alcazar Navarrete (Cájar, Spain), Oliverio Ruiz Rodriguez, Pablo Conde Baena, Pedro J Romero Palacios

PA2019  Determinants of FENO in COPD with regard to current smoking
Marieann Högman (Uppsala, Sweden), Christer Janson, Karin Lisspers, Kristina BröMs, BjöRn StåLLberg, Andrei Malinovschi

PA2020  Use of Inhaled corticosteroid (ICS)-containing regimen for COPD patients with high or low blood eosinophilia: A meta-analysis
Jamie Chua (Caloocan City, Philippines), Albert Albay, Mithi Kalayaan Zamora

PA2021  COPD: Are beliefs about inhaled medication associated with patients’ inhaler technique?
António Manuel Silva Duarte De Araújo (Braga, Portugal), Pedro Teixeira, Venceslau Hespanhol, Jaime Correia-De-Sousa

PA2022  Overexpression of chitotriosidase and YKL-40 in serum and sputum in healthy smokers and patients with chronic obstructive pulmonary disease
Sebastian Majewski (Stryków, Poland), Damian Tworek, Karolina Szewczyk, Zofia Kurmanowska, Justyna Kiszalkiewicz, Ewa Brzezińska-Lasota, Hanna Jerzyńska, Adam Antczak, Wojciech Piotrowski, Paweł Górska

PA2023  Significance of serum YKL-40, S100A8, S100A9, calprotectin, periostin and LRG1 levels in patients with newly diagnosed, controlled and uncontrolled asthma
Bilun Gemicioglu (Istanbul, Turkey), Ozgur Yasar, Tulay Akca

7.2C  Session 227  08:30 - 10:30
Poster discussion: Improving the outcomes of community-acquired pneumonia

Disease(s) : Respiratory infections  Respiratory critical care  Respiratory infections
Method(s) : Imaging  Cell and molecular biology  Epidemiology  Respiratory intensive care  General respiratory patient care
Chairs : Marcos I. Restrepo (San Antonio, United States of America), Lieuw Bos (Amsterdam, Netherlands)

PA2024  Non-steroidal anti-inflammatory drug use and clinical outcomes of community-acquired pneumonia
Damien Basille (Amiens, France), Reimar Wernich Thomsen, Morten Madsen, Pierre Duhaut, Claire Andrejak, Vincent Jouinieux, Henrik Toft SoRensen

PA2025  A retrospective survival analysis of nursing and healthcare associated pneumonia in patients with resistant pathogens
Kenji Umeki (Yufu, Japan), Kosaku Komiya, Yuko Usagawa, Yukiko Takeno, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, KazuFumi Hiramatsu, Jun-Ichi Kadota

PA2026  Hypoxemia as a determinant of hospitalization in patients with Community Acquired Pneumonia
Anantharaj Suresh (Chennai (Tamil Nadu), India), Damodharan Thenmozi, Gulecha Nayan Sri

PA2027  Association between clinical profile and etiologic agent of pneumonia
Maria Inês Oliveira Gomes da Costa (Rio Tinto, Portugal), Ana Cipriano, Fabio Videira, Sofia Valdoleiros, Ana Machado, Joana Gomes, Miguel Abreu, Helder Bastos

PA2028  Human metapneumovirus lower respiratory tract infections in adults: chest CT imaging features and their evolution
Lawrence A. Marinari (Bryn Mawr, United States of America), Wallace T. Miller, Jr., Madeline A. Danny

PA2029  Data from the PROGRESS study - blood gene expression patterns predict severe outcome of community acquired pneumonia
Peter Ahnert (Leipzig, Germany), Holger Kirsten, Sebastian Weis, Elke Grunow, Petra Creutz, Michael Kiehntopf, Markus Löfler, Norbert Sutterp, Markus Scholz, Michael Bauer

PA2030  Respiratory syncytial virus (RSV) disease in hospitalised adults in Europe: comparison of retrospective patient chart reviews of adults ≥65 (≥65y) and 18-64 years
Odile Launay (Paris, France), Florian Thalhammer, Thomas Harrer, Arnaud Cheret, Guy De La Rosa, Ian Sander, Robert Stolper, Jessica Zakar, Karin Weber

PA2031  Outcomes characteristics in healthcare-associated pneumonia
Bruno Gil Gonçalves (Lousada, Portugal), Sara Cabral, António Paulo Lopes

PA2032  Point of care respiratory viral testing (POCT): A novel service to target appropriate antimicrobial prescription and improve antibiotic stewardship.
Kay Roy (St Albans (Hertfordshire), United Kingdom), Katherine Groom, Matthew Knight

PA2033  Mortality associated factors of patients admitted due to flu during 2015-2016 and 2016-2017
Alberto Mangas Moro (Madrid, Spain), Carlos Javier Carpio Segura, Ester Zamarrón De Lucas, Concepción Prados Sánchez, José Ramón Arribas Peña, Beatriz Diaz Pollán, Rodolfo Alvarez-Sala Walther
The PROGRESS Study - Operationalization of Disease Severity and Prediction of Outcome using the SOFA Score
Petra Creutz (Berlin, Germany), Peter Ahnert, Michael Kiehnopf, Hamid Hossain, Michael Bauer, Uwe Völker, Trinad Chakraborty, Martin Witzenrath, Markus Löffler, Markus Scholz, Norbert Suttorp

Broad-spectrum antibiotic use and poor outcomes in community-onset pneumonia
Brandon Webb (Murray, United States of America), Jeff Sorensen, Al Jephson, Ian Mecham, Nathan Dean

ERS guideline compliant antibiotics among hospitalized patients with Community-acquired pneumonia on the ward service
Marcos I. Restrepo (San Antonio, United States of America), Stefano Aliberti

The prognostic value of the Charlson’s comorbidity index in patients with bacteremic pneumonia
Seungeon Song (Busan, Republic of Korea), Sang Woo Moon, Se Young Kim, Min Seok Ko, Jin Eun Kim

Risk factors for antibiotic re-administration in patients with pneumonia during hospitalization.
Saori Nishizawa (Iizuka, Japan), Kazunori Tobino, Masanobu Okahisa, Yuki Goto, Kojin Murakami, Takuto Sueyasu, Miyuki Munechika, Kohei Yoshimine

Risk factors for immunosuppression in hospitalized patients coming from the community with pneumonia: a worldwide perspective
Marta Francesca Di Pasquale (Milano (MI), Italy), Giovanni Sotgiu, Andrea Gramegna, Dejan Radovanovic, Silvia Terraneo, Luis F Reyes, Francesco Blasi, Marcos I Restrepo, Stefano Aliberti

Evaluation of nursing and health care-associated pneumonia patients with poor performance status.
Ryoosuke Hamanaka (Oita, Japan), Kenji Umeki, Kosaku Komiya, Yuko Usagawa, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, Kazufumi Hiramatsu, Jun-Ichi Kadota

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Ryoosuke Hamanaka (Oita, Japan), Kenji Umeki, Kosaku Komiya, Yuko Usagawa, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, Kazufumi Hiramatsu, Jun-Ichi Kadota
PA2049  A RESPIRATORY TELEREHABILITATION PROGRAM AS MAINTENANCE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Juan Bautista Galdiz Iturri (Getxo (Vizcaya), Spain), Alba Gomez, Rosa Guell, Pilar Cebolleiro, Diego Rodriguez, Pilar Cezudo, Susana Chic, Marta Iscar, Juan Aguero, Itxaso Sayago, Gema Rodriguez Castro, Borja Costo, Jose Ignacio Pijoan

PA2050  Exercise training and airway inflammation in severe-asthma: results from a feasibility study
Sally Majd (Leicester (Leicestershire), United Kingdom), Sally Singh, Peter Bradding, Stacey Hewitt, Lindsay Apps, Anna Murphy, Ruth Green, Rachael Evans

PA2051  Predictors for adherence to COPD exacerbation action plans
Anke Lenferink (Oldenzaal, Netherlands), Job Van Der Palen, Laura Bosman, Paul Van Der Valk, Peter Frith, Tanja Effing

PA2052  Simple quadriceps strength measurement in COPD using a fixed dynamometer. Determination of the minimal important difference after a pulmonary rehabilitation program.
Trija Vaidya (NANTES, France), Marc Beaumont, Claire De Bisschop, Lucie Bazerque, Camille Le Blanc, Anne Vincent, Hakima Ouksel, Arnaud Chambellan

PA2053  What is the best frequency of exercise training in patients with moderate-to-severe COPD ?
Mara Paneroni (Mazzano (BS), Italy), Antonio Spanevello, Elisabetta Zampogna, Mauro Carone, Vito Spinelli, Bruno Balbi, Stefano Belli, Mauro Maniscalco, Mariarosaria Guarente, Carla Simonelli, Michele Vitacca

PA2054  A randomised crossover trial investigating the effect of a portable positive pressure ventilation device on exercise tolerance in patients with COPD
Steve Cutts (London, United Kingdom), Amanda Burls, Kola Akinlabi, John R Hurst, Swapna Mandal, Stephanie K Mansell

PA2055  Impact of promotion of physical activity supported by mobile technology on behavioral changes
Erik Baltaxe (Barcelona, Spain), Anael Barberán-García, Felip Burgos, Carmen Hernandez, Carmen Herranz, Akos Tenyi, Josep Roca, Isaac Cano

Suhani Patel (Harefield, United Kingdom), Claire Nolan, Ruth Barker, Sarah Jones, Matthew Maddocks, Peter George, Felix Chua, Toby Maher, William D-C Man

PA2057  Benefits of pulmonary rehabilitation on ILD patients: a comparison between two types of training
Mélina Lalande Gauthier (Montréal (QC), Canada), Marilyn Houle-Pelouquin, Benoit Sauvageau, Alain-Steve Comtois, Julie Morisset, Claude Poirier

PA2058  Benefits of pulmonary rehabilitation program in patients with persistent asthma
Tajana Jalušić Glunčić (Zagreb, Croatia), Latinka Basara, Andrea Vukić Dugac, Ana Hečimović, Marija Bajutti, Miroslav Samaržija

PA2059  Efficacy of Costal Mobilization technique and Manual diaphragm release technique in the ventilatory mechanics of COPD: a randomized clinical trial
Helena Rocha (Recife, Brazil), Rodrigo Viana, Catarina Rattes, Daniela Brandao, Taciano Rocha, Luciana Alcoforado, Verônica Parreira, Raquel Britto, Guilherme Fregonezi, Armêle Dornelas De Andrade

7.3J  Session 229  08:30 - 10:30

Poster discussion: The many facets of respiratory nursing

Methods: Public health  Epidemiology  General respiratory patient care

Chairs: Saskia W. M. Weldam (Utrecht, Netherlands), Jungeun Lee (Kingston, United States of America)

PA2060  Effectiveness of a hand-held fan for managing dyspnoea in patients with interstitial lung disease
Nicola Cassidy (Dublin 5, Ireland), Petra Grehan, Irene Byrne, Gemma O'Dowd, Jim J Egan

PA2061  The factors influencing COPD self-care: a mixed methods study
Marco Clari (Torino (TO), Italy), Dhurata Ivziku, Maria Matarese

PA2062  ECare-COPD. Self-management promotion in people with COPD: training programme
Miguel Padilha (Porto, Portugal), Paulo Machado, Ana Ribeiro, José Ramos

PA2063  Preventative care and home treatment in patients at risk of hospitalisation due to exacerbation of COPD.
Birgit Røfsgaard Iversen (Århus C, Denmark), Lotte Ørneborg Rodkjær, Vibke Bregnballe, Anders Løkke Ottesen

PA2064  Illness representations and coping strategies during exacerbation of COPD: A qualitative descriptive study.
eлизabeth chin (MATTAPOISSETT, United States of America)
PA2065 Dyadic Symptom Management in Chronic Obstructive Pulmonary Disease
Dhurata Ivziku (Roma (RM), Italy), Marco Clari, Maria Matarese

PA2066 Are symptoms experienced by patients admitted with COPD documented by health professionals? - A survey
Charlotte Sandau Bech (Fredensborg, Denmark), Dorthe Bove, Kristoffer Marsá, Matias Greve Lindholm

PA2067 Symptomatic GORD in difficult asthma is associated with worse asthma control and related comorbidities: Findings from WATCH
Yvette Thirlwall (Southampton (Hampshire), United Kingdom), Kamran Tariq, Heena Mistry, Adnan Azim, Clair Barber, Kimberley Bentley, Colin Newell, Hans Michael Haighti, Ratko Djukanovic, Ramesh Kurukulaaratchy

PA2068 Asthma control is associated with smoking status: Findings from WATCH
Yvette Thirlwall (Southampton (Hampshire), United Kingdom), Clair Barber, Adnan Azim, Heena Mistry, Matt Harvey, Colin Newell, Judith Varkonyi-Sepp, Hans Michael Haighti, Paddy Dennison, Ramesh Kurukulaaratchy

PA2069 Dyspnoea perception and FEV1 decline during Sputum Induction in Healthy Controls and COPD patients
Pedro Rodrigues (Southampton (Hampshire), United Kingdom), Kristoffer Ostridge, Karl Staples, Kerry Gove, Sarah Bawden, Tom Wilkinson

PA2070 Investigation the Effects of Smoking on sleep Quality and Sleep Apnea During Elderly
Selman celik (Istanbul, Turkey), Hediye Arslan Ozkan

PA2071 Health status among adult asthmatics – a population-based study
Caroline Stridsman (Luleå, Sweden), Helena Backman, Britt-Marie Eklund, Linnea Hedman, Eva Rönmark

PA2072 Holistic needs assessment (HNA) in lung cancer patients; bridging health and social care
Mary Mambwere (London, United Kingdom), Mary Mambwere, Georgia Hardavella

PA2073 Nurse led lung cancer diagnostic/supportive follow up clinic: a different approach to optimise lung cancer pathway
Sarah Kerr (London, United Kingdom), Mary Mambwere, Georgia Hardavella

PA2074 Self-reported health in adolescents with exercise induced laryngeal obstruction
Merete Benestad (Bergen, Norway), Bente Vederhus, Jorun Drageseth, Hege Clemm, Thomas Halvorsen

PA2075 The development of an instrument to assess the needs of people with COPD: a Delphi study
Marco Clari (Torino (TO), Italy), Riccardo Casciaro, Dhurata Ivziku, Maria Matarese

PA2076 Perceptions of the role of the respiratory Clinical Research Nurse.
Katherine Huband (Southend-on-Sea (Essex), United Kingdom), Rebecca Dobra, Adam Lewis, Alan Simpson

No Room  Session 230  08:30 - 13:00

Game Zone: GAME ZONE - SESSION 3

Ultrasound
Fausto Leoncini (Montespertoli (FI), Italy), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands)

Interventional Bronchoscopy
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Judith Lyons (, United Kingdom), Sofia Romani (Roma (RM), Italy)

7.3A  Session 237  10:45 - 12:45

Year in review: Clinical Year in Review
Aims: For the four different topics experts will present and discuss the top articles from the last year.

Disease(s): Airway diseases
Method(s): Endoscopy and interventional pulmonology  General respiratory patient care  Pulmonary function testing
Tag(s): Clinical
Target audience: Allergist, Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Physiotherapist, Radiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Jouke T. Annema (Amsterdam, Netherlands), Lieuwe Bos (Amsterdam, Netherlands)

10:45 The year in rehabilitation and chronic care
Martijn A. Spruit (Horn, Netherlands)
### Symposium: State of the art session: Respiratory infections

**Aims:** To update clinicians in the diagnosis, treatment and prevention of respiratory infections.

**Disease(s):** Respiratory infections

**Method(s):** Cell and molecular biology, General respiratory patient care, Imaging, Public health, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Paediatrician, Student, Trainee, Adult pulmonologist/clinician

**Chairs:** Eva Polverino (Barcelona, Spain), Raquel Duarte (Porto, Portugal)

**10:45** Pneumonia: diagnosis, treatment and prevention  
Francesco Blasi (Milan, Italy)

**11:15** Tuberculosis: recent advances in diagnosis, treatments and prevention of nosocomial transmission  
Christoph Lange (Borstel, Germany)

**11:45** Bronchiectasis: the new, the old and the ugly  
James D. Chalmers (Dundee (Angus), United Kingdom)

**12:15** Non-tuberculous mycobacteria: how to treat these difficult infections  
Jakko van Ingen (Nijmegen, Netherlands)

### Symposium: Infectious agents and childhood asthma

**Aims:** To describe the role of viral respiratory infections in the inception of asthma; to show how the airway microbiome and bacteria-virus interactions can both serve as targets for asthma prevention and treatment; to discuss how the environment and gut microbiomes can act as determinants of childhood asthma and to describe the implications for prevention; and to detail the management of childhood asthma in preschool children.

**Disease(s):** Paediatric respiratory diseases, Respiratory infections

**Method(s):** Epidemiology, General respiratory patient care

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Scientist (basic, translational), Student, Trainee

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Sejal Saglani (London, United Kingdom)

**10:45** Early-life viral respiratory infections and childhood asthma inception - can we unlink the association?  
Louis Bont (Utrecht, Netherlands)

**11:15** It’s not just viruses - the airway microbiome, bacteria-virus interactions and childhood asthma  
Avraham Beigelman (St. Louis, MO, United States of America)

**11:45** The environment and the gut microbiome - interesting association or a rich field for future therapies?  
Erika von Mutius (München, Germany)

**12:15** Preschool asthma - have randomised controlled trials provided clarity on management?  
Jonathan Grigg (London, United Kingdom)
Aims: To present and discuss the data of three recent randomised controlled trials that explored the ability of intensified inhaled corticosteroid (ICS) therapy to prevent exacerbations in patients with asthma and COPD who present with acute poor symptom control or upper respiratory tract infections (URTIs).

Disease(s): Airway diseases, Respiratory infections

Method(s): Epidemiology, Public health, Pulmonary function testing

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Nurse, Paediatrician

Chairs: Fernando J. Martinez (New York, United States of America), Emiel F. M. Wouters (Maastricht, Netherlands)

10:45 Quintupling inhaled glucocorticoids to prevent childhood asthma exacerbations
Daniel Jackson (Madison, United States of America) 2105

11:15 Quadrupling the inhaled glucocorticoid dose to abort asthma exacerbations
Tim Harrison (Nottingham (Nottinghamshire), United Kingdom) 2106

11:45 Intensified therapy with inhaled corticosteroids and long-acting b2-agonists (LABAs) at the onset of URTIs to prevent COPD exacerbations: a multicentre randomised double-blind placebo-controlled trial
Daiana Stolz (Basel, Switzerland) 2107

12:15 LAMA/LABA vs. LABA/ICS and triple therapy – is ICS in again?
David A Lipson (Wynnewood, United States of America) 2108

7.3C Session 241 10:45 - 12:45

Symposium: Integrated care for patients with pulmonary vascular disease, lung diseases and heart failure

A joint ERS/ESC/Heart Failure Association session

Aims: This symposium is a collaborative effort between the ERS, the ESC and the Heart Failure Association of the ESC that aims to disseminate the recent advances in the chronic care of patients with chronic lung disease and heart failure. In particular, the diagnosis, pharmacological treatment and rehabilitation strategies in pulmonary vascular disease will be addressed.

Disease(s): Airway diseases, Pulmonary vascular diseases

Method(s): General respiratory patient care

Tag(s): Clinical

Target audience: Clinical researcher, Critical/Intensive care physician, General practitioner, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

Chairs: Frits M.E. Franssen (Horn, Netherlands), Marion Delcroix (Leuven, Belgium)

10:45 Managing deteriorations in chronic obstructive pulmonary disease: which organ is failing?
Marco Canepa (Genoa, Italy) 2109

11:15 Optimising pharmacotherapy in patients with pulmonary arterial hypertension and comorbidities, including lung diseases and heart failure: benefits without harm?
Marc Humbert (Paris, France) 2110

11:45 The haemodynamic and gas-exchange responses to exercise in pulmonary hypertension, chronic obstructive pulmonary disease and left heart ventricle failure: similarities and differences
Anton Vonk Noordegraaf (Amsterdam, Netherlands) 2111

12:15 Interdisciplinary rehabilitation in pulmonary hypertension: can we learn from chronic obstructive pulmonary disease or heart failure?
Carolyn Rochester (New Haven, United States of America) 2112

7.3Z1 Session 242 10:45 - 12:45

Symposium: Respiratory medicine meets hematology

Aims: To provide state of the art presentations on the pulmonary manifestations of haematological diseases (malignant and non-malignant), the spectrum of respiratory infections in immunocompromised patients with haematological diseases (e.g., during bone marrow aplasia), the non-infectious lung complications of treatments for leukaemia and lymphoma, and the pulmonary manifestations of acute and chronic graft-versus-host disease.

This session is endorsed by the European Hematology Association (EHA - www.ehaweb.org).
### 7.3B Session 243 10:45 - 12:45

**Oral presentation: Intercellular communication in tissue remodelling**

**Disease(s):** Airway diseases, Respiratory critical care, Respiratory infections, Interstitial lung diseases, Sleep and breathing disorders, Pulmonary vascular diseases, Respiratory infections

**Method(s):** Imaging, Epidemiology, Cell and molecular biology

**Chairs:** Aurelie Fabre (Dublin, Ireland), Philippe Bonniaud (Dijon, France)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
<th>Abstract Location</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Pulmonary manifestations of haematological diseases: from lymphoma to sickle cell crisis</td>
<td>Venerino Poletti (Forlì, Italy)</td>
<td>2113</td>
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<tr>
<td>11:15</td>
<td>Respiratory infections in immunocompromised patients with haematological diseases</td>
<td>Elie Azoulay (Paris, France)</td>
<td>2114</td>
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<tr>
<td>11:45</td>
<td>Pulmonary toxicity of treatments for leukaemia and lymphoma</td>
<td>Robert Vassallo (Rochester, United States of America)</td>
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<td>12:15</td>
<td>Graft-versus-host disease in the lungs: novel insights and treatments</td>
<td>Anne Bergeron Lafaurie (Paris, France)</td>
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### 7.3Z2 Session 244 10:45 - 12:45

**Oral presentation: COPD: from LABA/ICS to LABA/LAMA/ICS**

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** Epidemiology, General respiratory patient care

**Chairs:** Mario Cazzola (Roma (RM), Italy), Huib A.M. Kerstjens (Groningen, Netherlands)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
<th>Abstract Location</th>
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<tr>
<td>10:45</td>
<td>The effect of age on lung epithelial barrier function</td>
<td>Kirsten Muizer (Groningen, Netherlands), Maaike De Vries, Wim Timens, Maarten Van Den Berge, Alen Faiz, Tillie-Louise Hackett, Corry-Anke Brandsma, Irene H. Heijink</td>
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<td>10:45</td>
<td>Myofibroblasts are associated with increase in small airway thickening, epithelial plasticity and decreased lung function in COPD</td>
<td>Mathew Eapen (Hobart (TAS), Australia), Chris Ward, Haydn Walters, James Markos, Collin Chia, Josie Larby, Greg Haug, Angela Hills, Tillie-Louise Hackett, Wenyeng Lu, Stephen Myers, Sukhwinder Singh Sohal</td>
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<td>10:45</td>
<td>Endothelial dysfunction in emphysematous rats exposed to intermittent hypoxia and interventional effects of tempol</td>
<td>Jing Zhang (Tianjin, China), Yaping Zhao, Jie Cao, Lixia Dong, Jing Zhang, Haiyan Zhao, Xin Li</td>
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<td>10:45</td>
<td>Essential role of smooth muscle Rac1 in severe asthma associated-airway hyperresponsiveness and remodelling</td>
<td>Florian Dilasser (Nantes, France), Antoine Magnan, Gervaise Loirand, Vincent Sauzeau</td>
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<td>10:45</td>
<td>Exosomal microRNAs in the lung: eliciting long-term intercellular communication?</td>
<td>Tilman Sanchez-Elsner (Southampton (Hampshire), United Kingdom), Anastasios Lekkas, Toby Mellows, Eva M. Garrido-Martin, Peter H. Howarth, Peter S. Friedmann, Pandurangan Vijayanand, Christian Ottensmeier</td>
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<td>10:45</td>
<td>Sputum exosomal microRNAs in IPF</td>
<td>Julien Guiot (Liège, Belgium), Makon-Sebastien Njock, Monique Henket, Olivier Nivelles, Renaud Louis, Ingrid Struman</td>
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<td>10:45</td>
<td>Late Breaking Abstract - Novel mesenchymal pathways that initiate emphysema</td>
<td>Susan Majka (Nashville, United States of America), Christa Gaskill, Jonathan Kropski, Bradley Richmond, Robert Foronjy, M. Mark Taketo</td>
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Late Breaking Abstract - Blood eosinophil count (EOS) can accurately predict responsiveness to inhaled corticosteroids (ICS) in COPD, but only if measured while patients are not receiving steroids.
Alexander Mathioudakis (Manchester, United Kingdom), Philip Foden, Jørgen Vestbo

Late Breaking Abstract - Holter ECG-based arrhythmia and heart rate analysis in patients with COPD receiving a fixed-dose combination of tiotropium/olodaterol versus its monocomponents
Stefan Andreas (Immenhausen, Germany), Ulrich Bothner, Alberto De La Hoz, Isabel Kloer, Matthias Trampisch, Peter Alter

Late Breaking Abstract - Blood eosinophil counts and treatment response in COPD: analyses of IMPACT
Steven Pascoe (King of Prussia, United States of America), Neil Barnes, Guy Brusselle, Chris Compton, Gerard Criner, Mark Dransfield, David M.G. Halpin, Meilan K. Han, Benjamin Hartley, Emma Hilton, Peter Lange. Sally Lettis, David A. Lipson, David Lomas, Fernando J. Martinez, Alberto Papi, Nicolas Roche, Ralf J.P. Van Der Valk, Robert Wise, Dave Singh

Late Breaking Abstract - IMPACT study — single inhaler triple therapy (FF/UMEC/VI) versus FF/VI and UMEC/VI in patients with COPD: healthcare resource utilization and costs — UK
Afisi Ismaila (Cary, United States of America), Victoria Paly, Melanie Schroeder, Alan Martin, Jiahe Li, Sally Lettis, Nancy Risebrough

Late Breaking Abstract - Analysis of the InforMing the PAthway of COPD Treatment (IMPACT) study in the subgroup of patients taking triple therapy at screening
Dave Singh (Manchester, United Kingdom), Gerard Criner, Nicola C. Day, Mark Dransfield, David M.G. Halpin, Meilan K. Han, C. Elaine Jones, Sally Kilbride, Peter Lange, David A Lipson, David A. Lomas, Steve Pascoe, Maggie Tabberer, Robert Wise, Fernando J. Martinez

Late Breaking Abstract - Reduction of COPD exacerbations with extrafine single inhaler triple therapy: post-hoc analysis by exacerbation treatment of the TRIBUTE study
Leonardo Michele Fabbri (Modena, Italy), Dave Singh, Ilaria Valente, Alessandro Guasconi, Helene Prunier, George Georges, Alberto Papi

Late Breaking Abstract - Extrafine single inhaler triple therapy improves quality of life in COPD. Analysis of SGRQ subdomains of the TRIBUTE Study
Leonardo Michele Fabbri (Modena, Italy), Dave Singh, Ilaria Valente, Alessandro Guasconi, Helene Prunier, George Georges, Alberto Papi

Late Breaking Abstract - Pharmacokinetic and pharmacodynamic interactions between components of extrafine formulation of BDP/FF/GB, a novel fixed-dose triple combination for asthma and COPD
Massimo Cellu (Parma, Italy), Lien Gheyle, Chiara Garofalo, Carolyn Beaudot, George Georges

Session 245 10:45 - 12:45
Symposium: Cell-matrix interactions in lung disease and regeneration
Reflections from the 2018 Lung Science Conference

Aims: This special session aims to highlight some of the key cutting-edge concepts regarding cell-matrix interactions across the spectrum of respiratory disease and regenerative medicine that were presented during the 2018 Lung Science Conference (LSC) in Estoril. Cells sense and functionally respond to their physical three-dimensional environment by translating extracellular matrix (ECM) interactions and mechanical forces and deformations into biochemical signals. Molecular defects that interrupt or alter mechanical sensing and the subsequent cell signalling events can perturb normal cellular function, thereby potentially contributing to a diverse range of diseases, including those that associate with abnormal lung development, acute lung injury, pulmonary fibrosis, airway remodelling and cancer. In this session, we will review the latest developments in our understanding of the way perturbed cell-ECM interactions determine cell fate and function and can lead to respiratory disease. This session will include presentations by an exciting panel of leading investigators who are working at the forefront of respiratory science and medicine as well as two short presentations from two prize winners at the 2018 LSC.

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Clinical researcher, Scientist (basic, translational), Student, Thoracic oncologist, Trainee
Chairs: Rachel Chambers (London, United Kingdom), Silke Meiners (München, Germany)

10:45 Human lung scaffolds to model lung disease and tissue regeneration
Darcy Wagner (Lund, Sweden)

11:15 Matrix dysfunction and the aging lung
Herbert Schiller (Munich, Germany)
11:45 Laser-capture microdissection, mass spectrometry and immunohistochemistry reveal pathological alterations in the extracellular matrix of transplanted lungs
Catharina Mueller (Lund, Sweden)

12:00 Progress towards human lung regeneration in end-stage respiratory failure: studying human lung development in vitro using organoid cultures of human embryonic lung stem cells
Marko Nikolic (Cambridge (Cambridgeshire), United Kingdom)

12:15 Stem cell renewal and the matrix
Toby Maher (St. Albans (Hertfordshire), United Kingdom)

7.3Q Session 246 10:45 - 12:45
Oral presentation: New predictors of morbidity and mortality in COPD

Disease(s): Airway diseases, Respiratory critical care
Method(s): Epidemiology, Imaging, General respiratory patient care
Chairs: David M. G. Halpin (Exeter Devon, United Kingdom), Stephanie Everaerts (Leuven, Belgium)

Late Breaking Abstract - High-sensitivity troponin I predicts all-cause mortality in stable COPD in the COSYCONET cohort
Benjamin Waschki (Hamburg, Germany), Peter Alter, Tanja Zeller, Christina Magnusson, Raphael Twerenbold, Stefan Blankenberg, Albert Omlor, Christian Herr, Klaus Rabe, Tobias Welte, Rudolf Jörrres, Claus Vogelmeier, Robert Bals, Henrik Watz

Disease progression patterns in COPD
Felix John Samuel Bragman (London, United Kingdom), Alexandra Young (London, United Kingdom), Alexandra Louise Young, David J Hawkes, Daniel C Alexander, John R Hurst

Longitudinal stability and association with all-cause mortality of the 2017 GOLD groups in the ECLIPSE cohort
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Maria Rosa Faner Canet, Guillaume Noell, Per Bakke, Edwin K. Silverman, Ruth Tal-Singer

The value of short physical performance battery (SPPB) as an alternative component of the BODE Index in predicting death in chronic obstructive pulmonary disease (COPD) in the ERICA cohort
Jilles Fernmont (Cambridge (Cambridgeshire), United Kingdom), Marie Fisk, Charlotte Bolton, John Cockcroft, Carmel Menciery, Jonathan Fuld, Divya Mohan, Ruth Tal-Singer, Hana Mullerova, Angela Wood, Ian Wilkinson, Michael Polkey

Soluble urokinase plasminogen activator receptor (suPAR) predicts mortality in exacerbated COPD
Ditte Vendelbo Jørgensen (Hvidovre, Denmark), Nina Skalvan Godtfredsen, Kristoffer Marsaa, Charlotte Suppli Ulrik, Ove Andersen, Jesper Eugen-Olsen, Line Jee Hartmann, Rasmus Rasmussen

Role of different spirometric reference equations for lung volumes assessment
Gianluca Imeri (Bergamo, Italy), Fulvio Braido, Marco Contoli, Angelo Corsico, Fabiano Di Marco, Claudio Micheletto, Girolamo Pelaia, Paola Rogliani, Roberta Trappaso, Pierachille Santos, Nicola Scichilone, Paolo Solodoro, Giovanni Sotgiu

Novel spirometry indices detect mild airflow obstruction not detected by traditional criteria
Surya Bhatt (Birmingham, United States of America), Nirav Bhakta, Carla Wilson, Chris Cooper, Igor Barjaktarevic, Sandeep Bodduluri, Young-II Kim, Michael Eberlein, Prescott Woodruff, Frank Sciruba, Peter Castaldi, Meilan Han, Mark Dransfield, Arie Nakhimi

Clinical clustering of COPD patients is useful to predict future COPD exacerbations
Andrei Malinovschi (Uppsala, Sweden), Christer Janson, Kristina Bröms, Björn Ställberg, Karin Lisspers, Marieann Högman

7.3M Session 247 10:45 - 12:45
Oral presentation: Respiratory muscles and lung function: from healthy subjects to patients

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, Imaging, Cell and molecular biology, Physiology
Chairs: Sam Bayat (Grenoble, France), Danilo Cortozi Berton (Porto Alegre (RS), Brazil)

Late Breaking Abstract - Estimating elastic recoil via the forced oscillation technique (FOT).
Kris Nilsen (VIC, Australia), David, G Chapman, Katrina, O Tonga, Greg, G King, Bruce, R Thompson, Cindy Thamrin

Acute effects of inspiratory threshold load and interface on breathing pattern and activity of respiratory muscles
Jéssica Danielle Medeiros da Fonseca (Santa Cruz, Brazil), Vanessa Regiane Resqueti, Antônio José Sarmento Da Nobrega, Luciana Fontes Silva Da Cunha Lima, Valéria Soraya Farias Sales, Andrea Aliverti, Guilherme Fregonezi
OA2148 Acute effects of normocapnic hyperpnoea exercise on intercostal and locomotor muscle oxygenation in COPD
Ferid Oueslati (Québec (QC), Canada), Didier Saey, Eric Nadreau, Mickael Martin, Francois Maltais

THE EFFECT OF PREGNANCY ON RESPIRATORY FUNCTION
Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Daniela Alberigo, Nicola Persico, Peter Frykholm, Federica Briganti, Mario Nosotti, Ilaria Righi

OA2150 Chest wall kinematics measured during inspiratory threshold loading, deep breathing maneuvers and CO2 rebreathing in individuals post-stroke.
Jadranka Spahija (Montréal (QC), Canada), Karen Dev, Caroline De Marchie, Joyce Fung

OA2151 Pharmacometabolic effect of pirfenidone treatment in IPF detected by high resolution MALDI-FTICR imaging
Isis Enil Fernandez (München, Germany), Na Sun, Mian Wei, Michael Wittig, Michaela Aichler, Stjin Verleden, Philippine Schmitt-Kopplin, Axel Walch, Oliver Eickelberg

OA2152 Reduced FEV3/FVC identifies smokers at risk of developing COPD in the SPIROMICS cohort
Igor Barjaktarevic (Los Angeles, United States of America), Matthew Flynn, Russell Buhr, Xiaoyan Wang, William Lemaster, Brett Dolezal, David Couper, Wayne Anderson, Richard Kanner, Robert Paine, Robert Kaner, Jeffrey L. Curtis, Wanda O’Neal, Prescott Woodruff, Lisa Postow, Meilan Han, Fernando Martinez, Graham Barr, James Wells, Victor Ortega, Stephen Peters, Eric Hoffman, Claire Doerschuk, Victor Kim, Mark Dransfield, Surya Bhatt, Nirav Bhakta, Brad Drummond, Russell Bowler, Gerard Criner, Cheryl Pirozzoli, Carlos Martinez, Christopher Cooper

OA2153 Airflow obstruction which corrects post-bronchodilator as a predictor of future development of COPD
Christopher B. Cooper (Los Angeles, United States of America), Russell Buhr, Igor Barjaktarevic, Xiaoyan Wang, Brett Dolezal, Matthew Flynn, David Couper, Wayne Anderson, Robert Paine, Robert Kaner, Jeffrey L. Curtis, Wanda O’Neal, Prescott Woodruff, Lisa Postow, Meilan Han, Fernando Martinez, Graham Barr, James Wells, Victor Ortega, Eric Hoffman, Claire Doerschuk, Victor Kim, Mark Dransfield, Surya Bhatt, Nirav Bhakta, Bradley Drummond, Russell Bowler, Gerard Criner, Carlos Martinez, Richard Kanner

7.3O Session 248 10:45 - 12:45
Oral presentation: Granulomatous disorders: epidemiology, genotype and phenotype

Disease(s) : Interstitial lung diseases
Method(s) : Physiology Epidemiology General respiratory patient care Imaging Public health Cell and molecular biology
Chairs : Athol Wells (London, United Kingdom), Dominique Valeyre (Paris, France)

Risk of underdiagnoses of cardiac sarcoidosis by routine electrocardiogram and echocardiogram in patients with biopsy-proven extracardiac sarcoidosis
Hiroshi Ohira (Sapporo, Japan), Keiichiro Yoshinaga, Shinya Sakyo, Toshitaka Nakaya, Naoko Suzuki, Ayako Sugimoto, Akiko Hayashi, Tadao Akiwa, Takahiro Sato, Osamu Manabe, Noriko Oyama-Manabe, Taku Watanabe, Masaharu Nishimura, Ichizo Tsujino

Pulmonary function trends predict mortality in patients with hypersensitivity pneumonitis
Cristina Boccabella (L’Aquila (AQ), Italy), Claudio Macaluso, Maria Kokosi, Veronica Alfi, Carmel Stock, Vasilis Kouranos, George Margaritopoulos, Letizia Mori, Joseph Barnett, Philip Molyneaux, Peter George, Felix Chua, Toby Maher, Sujal Desai, Joseph Jacob, Anand Devaraj, Athol Wells, Elisabetta Renzoni

Diminished peripheral T cell activity in sarcoidosis associates with progressive disease.
Cody Schott (Chicago, United States of America), Christian Ascoli, Yue Huang, David Perkins, Patricia Finn

Cardiac sarcoidosis: a tertiary centre experience
Vasileios Kouranos (London, United Kingdom), Rakesh Sharma, Rajdeep Khattar, John Baks, Maria Kokosi, Sanjay Prasad, Kshama Wechalekar, Richard Underwood, Martin Cowie, Athol Wells

Peripheral blood memory T-helper (Th) 17 subsets in patients with chronic and acute pulmonary sarcoidosis
Olga P. Baranova (St. Petersburg, Russian Federation), Tatyana Ses, Igor Kudryvzev, Nataliya Lazareva, Mariya Serebyakova, Mikhail Ilkovich, Areg Totolyan

Clinical phenotypes of extra-pulmonary sarcoidosis. The EpiSarc study
Raphael Lhote (Suresnes, France), Fleur Cohen-Aubart, Hilario Nunes, David Launay, Karim Sacre, Raphael Borie, Nicolas Schleinitz, Mohamed Hamidou, Hervé Devilliers, Philippe Bonnaint, Matthieu Mahevas, Francois Lhote, Thomas Papo, Julien Haroce, Bertrand Godeau, Marc Michel, Zahir Amoura, Dominique Valeyre, Isabella Annesi-Maesano

OA2160 Genetic Profiles of Clinical Features in Sarcoidosis
Jonas Schupp (Freiburg, Germany), Sandra Freitag-Wolf, Annegret Fischer, Violeta Mihailović-Vučinić, Paola Rottoli, Antje Prasse, Stefan Schreiber, Michael Krawczak, Joachim Müller-Quernheim
7.3P  Oral presentation: Interventional pulmonology highlights in 2018: latest innovations

**Disease(s):** Thoracic oncology, Interstitial lung diseases, Airway diseases, Respiratory infections

**Method(s):** Imaging, General respiratory patient care, Endoscopy and interventional pulmonology

**Chairs:** Maren Schuhmann (Heidelberg, Germany), Prashant Nemichand Chhajed (Mumbai, India)

**OA2161** Late Breaking Abstract - A novel bronchoscopic lung volume reduction device for severe emphysema: a preclinical study in pigs
Guangfa Wang (Beijing, China), Yan Hu, Yuan Cheng, Hong Zhang

**OA2162** Late Breaking Abstract - First-in-Human Results of Bronchial Rheoplasty: An Endobronchial Treatment For Chronic Bronchitis (CB)
Arschang Valipour (Wien, Austria), Alvin Ing, Jonathan Williamson, Tajalli Saghai, Daniel Steinfort, Lou Irving, Gregory Snell, Eli Dabscheck, William Krimsy, Jon Waldstreicher, Sebastian Fernandez-Bussy

**OA2163** Confocal Laser Endomicroscopy (CLE) as a Guidance Tool for Transbronchial Lung Cryobiopsies in ILD
Lizzy Wijmans (Amsterdam, Netherlands), Daniel De Bruin, Joris Roelefs, Joeri Jonkers, Peter Bonta, Venerino Poletti, Juergen Hetzel, Jouke Annema

**OA2164** Transbronchial cryobiopsy from two different lobes versus one lobe in diffuse parenchymal lung diseases
Daniela Patricia Cunha Machado (Rio Tinto, Portugal), Gisela Lage, Catarina Marques, Filipa Lima, Inês Marques, Carla Nogueira, Ana Oliveira, José Almeida, Sérgio Campinha, Agostinho Sanches, Sofia Neves

**OA2165** Endobronchial Ultrasonography Elastography for predicting malignancy
Benan Caglayan (Istanbul, Turkey), Sinem Iliaz, PiNar Bulutay, Aysê Armutlu, Fatma Isil Uzel, Aysê Bilge Öztürk, Leyla Pur Özyiğıt

**OA2166** Mini-thoracoscopy vs Semirigid Thoracoscopy in Undiagnosed Exudative Pleural Effusions: A Randomized Controlled Trial
Karan Madan (New Delhi (Delhi), India), Shweta Bansal, Saurabh Mittal, Anant Mohan, Vijay Hadda, Deepali Jain, Sudheer Arava, Prabhat Malik, Gopi Khilnani, Ravindra Pandey, Randeep Guleria

**OA2167** Bronchoscopic Biopsy of Solitary Pulmonary Nodules with No Leading Airway Path
Felix J.F. Herth (Heidelberg, Germany), Shiyue Li, Jayyan Sun, Bing Lam, Daniel Nader, Jennifer Idris

**OA2168** Preclinical testing of custom-made airway stents
Anja Lena Thiebes (Aachen, Germany), Dornacha J. Mcgrath, Kathrin Kurtenbach, Johanna Clauser, Barry O’Brien, Peter E. McHugh, Stefan Jockenhoevel, Christian G. Corneliussen

7.3L  Poster discussion: New kids on the block: novel molecular pathways and therapeutic targets in chronic lung diseases

**Disease(s):** Airway diseases, Respiratory infections, Interstitial lung diseases, Pulmonary vascular diseases, Sleep and breathing disorders

**Chairs:** Niki L. Reynaert (Maastricht, Netherlands), Colin Bingle (Sheffield (South Yorkshire), United Kingdom)

**LSC - 2018 - Role of Mitogen activated-kinase (MAPK)-phosphatase (MKP)-5 in pulmonary fibrosis**
Theodoros Karampitsakos (Thebes, Greece), Argyrios Tzouvelekis (argyrios.tzouvelekis@fleming.gr / Department of Pulmonology, Sotiria Chest Hospital, Athens), Ksuk Min (ksukmin@gmail.com / Department of Pharmacology, Yale School of Medicine, New Haven, CT, USA, New Haven), Nikolaos Xylourgidis (nikoxylourgidis@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Guoying Yu (guoyingyu@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Jose D. Herazo-Maya (joseherazomaya@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Leonard Bizenhofer (leonardbizenhofer@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Anton Bennett (bennett@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Naftali Kaminiski (naftalikaminiski@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven)

**PA2169** The role of microRNA-155 in cigarette smoke-induced inflammation.
Elise De Smet (Ghent, Belgium), Pieter Mestdagh, Francisco Avila Cobos, Evy Blomme, Fien Verhamme, Sharen Provoost, Tania Maes, Guy Joos, Guy Brusselle, Ken Bracke
Cigarette smoke upregulating the expression of miR 21 increases IL-8 in airway epithelial cells
Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Eleonora Di Salvo, Maria Ferraro, Paola Dino, Federico Saibene, Luigi Lanata, Sebastiano Gangemi

Small airway fibroblasts from COPD patients are senescent and pro-fibrotic
Catherine Wrench (London, United Kingdom), Jonathan Baker, Peter Fenwick, Louise Donnelly, Peter Barnes

Aged tenascin-C knockout mice have increased lung volume and septal surface but unchanged lung function
Tiziana Patrizia Cremona (Bern, Switzerland), Sandrine Gremlich, Matthias Roth-Kleiner, Johannes Shittny

Epithelial plgR: A new player in idiopathic pulmonary fibrosis?
Thomas Plante-Bordeneuve (Ottignies, Belgium), Charles Pilette, Yousof Yakoub, Marylène Lecocq, François Huaux, Antoine Froidure

Syk expression and function in the pulmonary vasculature
Christoph Tabeling (Berlin, Germany), Julia Herbert, Ekaterina Boiariina, Andreas C. Hocke, Katherine Sewald, David J. Lamb, Stefan-Lutz Wollin, Heinz Fehrenbach, Wolfgang M. Kuebler, Armin Braun, Norbert Suttrop, Norbert Weissmann, Martin Witzenrath

Development of a nanostructured sensor for monitoring oxidative stress in living cells
Elisabetta Pace (Palermo (PA), Italy), Chiara Cipollina, Rosalinda Inguanta, Bernardo Patella, Marco Buscetta, Serena Di Vincenzo, Maria Ferraro, Carmelo Sunseri

Dysregulated mitochondrial integrity associated with lamin B1 reduction is involved in cellular senescence progression in COPD pathogenesis.

Metformin regulates sirtuin expression in airway epithelial cells
Aneesha Bhandari (london, United Kingdom), Jonathan Baker, Louise Donnelly, Peter Barnes

Supportive interaction of PI3K-Akt-mTOR and STAT3-miR21-PTEN controls IgE induced airway remodeling
Lei Fang (Basel, Switzerland), Lei Fang, Michael Tamm, Daiana Stolz, Michael Roth

GPR40 promotes tight junction assembly in human airway epithelial cells via AMPK-dependent mechanisms
Aekkacha Moonwiriyakit (Bangkok, Thailand), Panisara Wattanaphichet, Chatchara Muangprasat

Role of chaperone-mediated autophagy in COPD pathogenesis.
Yusuke Hosaka (Tokyo, Japan), Jun Araya, Kazuya Tsubouchi, Shunsuke Minagawa, Hiromichi Hara, Akihiro Ichikawa, Nayuta Saito, Tsukasa Kadota, Masahiro Yoshida, Takeo Ichikawa, Takenori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano

Cigarette smoke-induced activation of the integrated stress response in COPD airway epithelial cells and the role of oxidative stress
Gimano Amatngalim (Utrecht, Netherlands), Elke Malzer, Annemarie Van Schadewijk, Jayson Bradley, Maria Zarcone, Anne Van Der Does, Pieter Hiemstra, Stefan Marciniak

Involvement of NCOA4-mediated ferritinophagy in cigarette smoke-induced ferroptosis in COPD pathogenesis
Masahiro Yoshida (Tokyo, Japan), Shunsuke Minagawa, Jun Araya, Hiromichi Hara, Yusuke Hosaka, Akihiro Ichikawa, Nayuta Saito, Kazuya Tsubouchi, Takenori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano

Role of NLRP3 inflammasome and ATP in S100A12-induced MUC5AC production in airway epithelial cells
Hye Jeong Kim (Ansan-si, Republic of Korea), Karam Kim, Jin Hyun Kang, Il Yup Chung

Increased CTGF expression of circulating fibrocytes in asthmatic patients with severe OSA - the role of HIF-1a and HDAC7
Tsai-Yu Wang (Taipei, Taiwan), Yu-Lun Lo, Chun-Hua Wang, Han-Pin Kuo

Oral presentation: Multiomics studies in epidemiology: what can they tell us?

Disease(s): Airway diseases
Method(s): Imaging Epidemiology
Late Breaking Abstract - Associations between a COPD genetic risk score and lung structure on computed tomography (CT): SPIROMICS

OA2187

OA2188
Louise Wain (Leicester (Leicestershire), United Kingdom), Nick Shrime, Anna Guyatt, Vicki Jackson, A. Mesut Erzurumluoglu, Chiara Batini, Nicola Antoniou, Spirometa Consortium, Lung Eqtl Study, Brian Hobbs, Michael Cho, David Strachan, Andrew Iris, Ian Hall, Martin Tobin

OA2189
Heritability and genome-wide association study of diffusing capacity of the lung (DLCO)

OA2190

OA2191
Maternal dietary antioxidant intake in pregnancy and childhood respiratory and atopic outcomes: birth cohort study

OA2192
The effect of early puberty on asthma in women and men: A Mendelian randomization study

OA2193
Identification of novel rare genetic variants associated with COPD in the general population

OA2194
A whole genome sequencing association study of severe, uncontrolled asthma

PA2195
What can we learn from Idiopathic Pulmonary Fibrosis Registries?

PA2196
Predictors of death or transplant in patients with idiopathic pulmonary fibrosis in the IPF-PRO Registry

PA2197
Outcome differences between idiopathic pulmonary fibrosis (IPF) and other interstitial lung diseases (ILD) - data from the EXCITING registry
The European IPF Registry: Addressing challenges and characteristics of patients with Idiopathic Pulmonary Fibrosis

Ekaterra Krauss (Giessen, Germany), Andreas Guenther, Walter Klepetko, Philippe Bonniaud, Carlo Vancheri, Athol Wells, Jasmin Wagner, Bettina Paul, Ulrich Costabel, Maria Asuncion Nieto Barbero, Veronica Mueller, Martina Vasakova, Alberto Pesci, Matteo Sofia, Fotios Drakopanagiotakis, Werner Seeger, Bruno Crestani

Baseline characteristics of 1461 participants in the Pulmonary Fibrosis Foundation Patient Registry

Kevin Flaherty (Chicago, United States of America), Joao De Andrade, Lisa Lancaster, Susan Limb, Kathleen Lindell, Steven Nathan, Ganesh Raghu, Cathie Spino, John Stauffer, Paul Wolters, Gregory Cosgrove

Forced vital capacity, total lung capacity and diffusion capacity in idiopathic pulmonary fibrosis

Ida Pesonen (Stockholm, Sweden), Jing Gao, Dimitrios Kalafatis, Lisa Carlson, Marijukka Mylläriemi, Giovanni Ferrara, Magnus Sköld

Functional decline over time in patients with IPF treated with pirfenidone: the PROOF registry

Wim A Wuys (Rotselaar, Belgium), Caroline Dahlqvist, Hans Slabbynck, Marc Schlessner, Natacha Gusbin, Christophe Compere, Sofie Maddens, Klaus-Uwe Kirchgaessler, Karen Bartley, Benjamin Bondue

Pirfenidone use in a Swedish cohort of patients with pulmonary fibrosis (PF)

Giovanni Ferrara (Stockholm, Sweden), Karen Bartley, Aaron Levine, Lisen Arnheim-Dahlstrom, Klaus-Uwe Kirchgaessler, Ragnar Linder, Christer Janson, C. Magnus Sköld

Real world idiopathic pulmonary fibrosis in the EMPIRE registry

Martina Vasakova (Praha 4, Czech Republic), Martina Sterclova, Nesrin Mogulkoc, Jan Kus, Veronika Müller, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Mordechai Kremer, Michal Svoboda, Marketa Janotova

Bleeding risk in IPF patients treated with different anticoagulants: Real world data from the European MultiPartner IPF Registry (EMPIRE)

Abigel Margit Kolonics-Farkas (Budapest, Hungary), Martina Sterclova, Nesrin Mogulkoc, Jan Kus, Veronika Müller, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Michal Svoboda, Marketa Janotova, Martina Vasakova

Cryobiopsy in the diagnosis of diffuse parenchymal lung diseases: diagnostic strategy and complications in 699 patients

Claudia Ravaglia (Forlì, Italy), Sara Tomassetti, Alessandra Dubini, Sara Piciucchi, Venerino Poletti

Combined idiopathic interstitial pneumonia (IIP) and emphysema (E) in the Veterans Administration (VA) health system: characteristics, tobacco use, and outcomes

Roy Pleasants (Cary, United States of America), Armando Bedoya, Robert Kundich, Anne Reihman, Karen Welty-Wolf, Robert Tighe

Interstitial lung disease rates and risk factors in a UK lung cancer screening trial

Theresia Mikolasch (Cambridge (Cambridgeshire), United Kingdom), Mamta Ruparel*, Jennifer Dickson, Carolyn Horst, Sophie Tisi, Samantha Quaife, Neal Navani, Magali Taylor, Asia Ahmed, Penny Shaw, Stephen Burke, May-Jan Soo, Angshu Bhowmik, Joanna Porter, Sam Janes

A simple prognostic tool for idiopathic pulmonary fibrosis (IPF)

Thomas Gille (Bobigny, France), Kim-Anastasia Levand, Marouane Boubaya, Loris Moya, Guillaume Bertrand, Zohra Carton, Carole Planès, Dominique Valeyre, Pierre-Yves Brillet, Hilario Nunes

Does body mass index have prognostic significance for patients with idiopathic pulmonary fibrosis?

Nesrin Mogulkoc (Izmir, Turkey), Martina Sterclova, Veronika Müller, Jan Kus, Marta Hajkova, Dragana Jovanovic, Jasna Tekavec-Trkanjec, Marketa Janotova, Martina Vasakova

Myositis-specific antibodies in a cohort of idiopathic interstitial pneumonias with suggestive morphologies.

Laurens De Sadeleer (Leuven, Belgium), Stijn Verleden, Ellen De Langhe, Nicolas Bodart, Alain Vigneron, Xavier Bossuyt, Bart Vanaudenaerde, Wim Wuys
PA2212 Hypofractionated radiotherapy for stage I lung carcinomas: moderate hypofractionation optimizes outcome
Inès Menoux (Strasbourg, France), Delphine Antoni, Pierre Truntzer, Audrey Keller, Gilbert Massard, Georges Noël

PA2213 Tyrosine-kinase inhibitors (TKI) in first-line treatment of patients with non-small cell lung cancer (NSCLC) - real life data from the Czech Republic.
Jana Skříčková (Brno 35, Czech Republic), Renata Chloupková, Zbyněk Bortlíček, Petr Brabc, Karel Hejduk, Ladislav Dušek, Miloš Pešek, Vítězslav Kolek, Leona Koubková, Markéta Černovská, František Salajka, Milada Zemanová, Jana Krejčí, Helena Oupková, Monika Šatáňková, Andrea Benejová, Marcela Tomišková, Jaromír Roubec, Ivona Grygářková, Libor Havel, Michal Hrnčíř, Petr Opálek

PA2214 Adapalene abrogates erlotinib-induced skin disorder by regulating proinflammatory cytokine production from human epidermal cells.
Nanako Miwa (Kobe-City, Japan), Tatsuya Nagano, Daisuke Tamura, Ryota Dokuni, Kanoko Umezawa, Naoko Katsurada, Kyo kuma Nakata, Masatsugu Yamamoto, Motoko Tachihara, Hiroshi Kamiryo, Kazuyuki Kobayashi, Yoshihiro Nishimura

PA2215 Clinical, histological and molecular characteristics of lung cancer in patients under 30 years-old.
Agathe Ducrocq (ROUEN, France), Mathieu Salaün, Nicolas Piton, Aude Lamy, Florian Guisier, Luc Thiberville

PA2216 Changes in targeted therapy and costs in NSCLC between 2009 and 2013
Julia Walter (Neuherberg, Germany), Rolf Holle, Amanda Tufman, Larissa Schwarzkopf

PA2217 Accuracy of PD-L1 tumour staining of cytological and historical samples of lung adenocarcinoma
Carrie-Anne Wagner ( Fitzroy North, Australia), Michael Christie, Louis Irving, Daniel Steinfort

PA2218 Soluble sPD-L1 plasma concentrations in a series of 95 lung cancer patients
Dragana M. Jovanović (Beograd, Republic of Serbia), Jelena Kotur Stevuljević, Marina Roksandić-Milenković, Mari oara Simon, Vesna Ceriman, Spasoje Popević, Ivana Vukanić, Natalija Samardžić, Milica Kontić, Branislav Ilčić

PA2219 Impact of radiotherapy on outcomes of nivolumab in advanced non-small cell lung cancer: a case controlled study
Chinthaka Samaranyake (Sunshine Coast, Australia), John Coucher, Elizabeth Mccaffrey, Margot Lehman, Michelle Murphy

PA2220 Inhaled immunotherapy for lung cancer? Certainly possible.
Anastasios Kallianos (Athens, Greece), Pavlos Zarogoulidis, Dora Tsio uđa, Aggeliki Rapti, Chrysanthi Sardeli, Haidong Huang, Wolfgang Hohenforst-Schmidt, Georgia Trakada, Konstantinos Sapalidis

PA2221 Multimodal therapeutic approach for locally advanced NSCLC in everyday practice
Mihovil Roglič (Zagreb, Croatia), Filip Popović, Marina Labor, Sonja Badovinac, Marta Koršič, Marko Jakopović, Zoran Janevski, Josip Joachim Grah

PA2222 The efficacy of induction chemoradiotherapy followed by surgery in stage IIIA-proven N2 NSCLC and the influence of lymph node downstage on the incidence of postoperative recurrence
Akiko Tateishi (Chiba (Kamogawa), Japan), Masafumi Nemoto, Ryuta Tsuzuki, Ayumu Otsuki, Kei Nakashima, Yu Oyama, Hiroshi Sugimura, Kazufusa Shoji, Masahiro Aoshima

PA2223 The efficacy and safety of induction chemoradiotherapy (ICRT) followed by surgery in stage III NSCLC patients (pts) with T3/4-adjacent organ invasion involved (AOI): A single-center retrospective observational study.
Masahiro Nemoto (Chiba, Japan), Masafumi Misawa, Hiroaki Nomori, Akiko Tateishi, Ryuta Tsuzuki, Ayumu Otsuki, Kei Nakashima, Yu Oyama, Hiroshi Sugimura, Kazufusa Shoji, Masahiro Aoshima

PA2224 Survival impact of surgery in the treatment of stage IIIB-IVA non-small cell lung cancer
Seung Hun Jang (Anyang, Republic of Korea), Sojung Park, Chang Youl Lee, Ji Young Park, Joo-Hee Kim, Sunghoon Park, Yong Il Hwang, Ki-Suck Jung

PA2225 Changes of diffusing capacity after neoadjuvant concurrent chemoradiotherapy: implication on postoperative pulmonary complications in non-small cell lung cancer patients
sumin shin (seul, Republic of Korea), Yong soo Choi, Jae Jun Jung, Junyoo Im, Hyo Yeoong Park, Jong Ho Cho, Hong Kwan Kim, Jinhook Kim, Jae Il So, Young Mog Shim, Ho Yun Lee, Hye Yung Park

PA2226 MONITORING IMMUNODYNAMICS IN IMMUNE CHECKPOINT INHIBITOR THERAPY FOR STAGE IIIB/IV NON-SMALL CELL LUNG CANCER
Jani Sofia Almeida (Coimbra, Portugal), Daniela Bento, Patricia Couceiro, Vera Alves, Manuel Santos-Rosa, Fernando José Barata, Paulo Rodrigues-Santos, Ana Maria Ferreira Rodrigues Figueiredo

PA2227 A modified ILD-GAP index for patients with non-small cell lung cancer and interstitial lung disease
Haruki Kobayashi (Shizuoka, Japan), Tatsuki Naito, Shota Omori, Kazuhisa Nakashima, Kazushige Wakuda, Akira Ono, HirotsuguKenmotsu, Haruyasu Murakami, Masahiro Endo, Toshiaki Takahashi

PA2228 Management of concomitant COPD in patients with lung cancer
Magnus Gottlieb (København, Denmark), Kristoffer Marsaa, Anders Mellemgaard, Nina Skalvan Godtfredsen
Sleep disordered breathing and nocturnal hypoxemia are associated with an increased risk of lung cancer.

Luis Miguel Seijo Maceiras (Madrid, Spain), Maria Teresa Perez Warnisher, Luis Fernando Giraldo-Cadavid, Henry Oliveros, Elena Cabezas, Fernanda Troncoso, Teresa Gómez, Rosario Melchor, Erwin Javier Pinillos, Abdul El Hachem, Carolina Gotera, Paula Rodriguez, Nicolás González-Mangado, Germán Peces-Barba

7.2C  Poster discussion: New insights in rare diffuse parenchymal lung diseases (DPLDs) in adults and children

Disease(s) : Interstitial lung diseases

Method(s) : Epidemiology  Surgery  Endoscopy and interventional pulmonology  Public health  Cell and molecular biology  Transplantation  General respiratory patient care  Imaging

Chairs : Maria Molina Molina (Hospitalet de Llobregat (Barcelona), Spain), Raphaël Borie (Paris, France)

PA2230  Prevalence of pleuroparenchymal fibroelastosis (PPFE): A retrospective single-centre case study
Silvana Geleff (Vienna, Austria), Jasmin Gmeiner, Peter Jaksch, Helmut Prosch

PA2231  Clinical courses of asymptomatic patients with mild idiopathic pleuroparenchymal fibroelastosis
Mikio Toyoshima (Hamamatsu, Japan), Atsuki Fukuda, Daisuke Akahori, TakaFumi Suda

PA2232  Traction bronchiectasis and platythorax on computed tomography are determinants of progression and mortality in pleuro-parenchymal fibroelastosis
Felix Chua (London, United Kingdom), Peter George, Darius Armstrong-James, Anand Devaraj, Elizabeth Renzoni, Toby Maher, Athol Wells, Ilaria Pulzato, Phillip Molyneaux, Maria Kokosi, Vasilis Kouranos, George Margaritopoulos, Sujal Desai

PA2233  Multidisciplinary team dedicated to suspected heritable pulmonary fibrosis
Raphaël Borie (Paris, France), Caroline Kannengiesser, Serge Amselem, Olivier Brugiere, Diane Bouvry, Annick Clement, Vincent Cottin, Philippe Dieude, Clairelyne Dupin, Ralf Paul, Laurent Gouya, Pascale Fanen, Flore Sicre De Fontbrune, Lidwine Wemeau-Stevinou, Nadia Nathan, Bruno Crestani

PA2234  Mid-term clinical course of the three Japanese SFTPC mutated familial interstitial pneumonia patients.
Hiroyuki Ito (Nagasaki, Japan), Hiroshi Nakaoka, Yoshio Yamashita, Masahiro Takaki, Takeshi Tanaka, Masayuki Ishida, KonoSuke Morimoto

PA2235  Functional assessment of newly identified SFTPA1 and SFTPA2 mutations in patients with idiopathic interstitial pneumonia (IIP) and lung cancer

PA2236  COPA syndrome restricted to life-threatening alveolar hemorrhages: clinical, pathological, molecular and biological characterization
Nadia Nathan (Paris, France), Marie Legendre, Serge Amselem, Annick Clement, Emilie Filhol-Blin, Nicolas Richard, Sylvie Roulaud, Michael Fayon, Gillian Rice, Darragh Duffy, Vincent Bondet, Aurore Coulomb L’Hermine, Benedicte Neven, Marie-Louise Fremont, Yanick J Crow

PA2237  Down syndrome and pulmonary hemosiderosis: an under-recognized association
AURELIA ALIMI (Saint-Mandé, France), Jessica Taytard, Rola Abou Taam, Véronique Houdouin, Aude Forgeron, Marc Lubrano Lavadera, Pierrick Cros, Isabelle Gibertini, Jocelyne Derelle, Antoine Deschildre, Caroline Thumerelle, Ralf Paul, Philippe Reix, Michael Fayon, Sylvie Roulaud, Françoise Troussier, Marie-Catherine Renoux, Jacques De Blic, Sophie Leyronnas, Guillaume Thouvenin, Caroline Perisson, Aimé Ravel, Annick Clément, Harriet Corvol, Nadia Nathan

PA2238  Exogenous lipoid pneumonia in African children: a mixed-methods case series
Diana Marangu (Nairobi, Kenya), Komala Pillay, Ebrahim Banderker, Anesaa Vanker, Diane Gray, Marco Zampoli

PA2239  Alveolar hemorrhage syndrome in children
Anna Bogorad (Moscow, Russian Federation), Yuri Mizernitsky, Nadejda Rosinova, Natalia Lev, Ludmila Sokolova, Svetlana Djakova, Irina Zorina, Margarita Kostiuchenko

PA2240  Effectiveness of inhibitor mTOR in patients with lymphangioleiomyomatosis.
Lubov N. Novikova (St. Petersburg, Russian Federation), Mihail Ilkovich, Dali Dzadzua, Olga Baranova, Mariya Vasilyeva

PA2241  Pneumothorax in pulmonary langerhans cell histiocytosis (PLCH)
| PA2243 | Pleural effusion in patients with IgG4-related disease: new insights from a case series | Ori Wand (Kfar Sava, Israel), Osnat Moreh Rahav, Osnat Shtraichman, Mordechai Kramer |
| PA2244 | Drug induced interstitial lung disease: a systematic review | Sarah Skeoch (Manchester (Greater Manchester), United Kingdom), Nicholas Weatherley, Andrew Swift, Alexander Oldroyd, Chris Johns, Conal Hayton, Allesandro Giolli, James Wild, John Waterton, Maya Buch, Kim Linton, Ian Bruce, Colm Leonard, Bianchi Stephen, Nazia Chaudhuri |
| PA2245 | Unclassifiable interstitial lung disease: a distinct entity with heterogeneous progression | Mouhamad Nasser (Bron, France), Pierre Rigaud, Kais Ahmad, Julie Traclet, Vincent Cottin |
| PA2246 | Pulmonary Lymphangiomatosis – insights into an ultra-rare disease | Nilab Sarmand (Heidelberg, Germany), Stella Piel, Eva Brunnemer, Julia Waelscher, Markus Polke, Arne Warth, Claus Peter Heussel, Monika Eichinger, Felix Lasistschka, Benjamin Hoegerle, Lutz Frankenstein, Heike Zabeck, Stefan Rieken, Felix Herth, Michael Kreuter |
| 7.2D | Session 255 | 10:45 - 12:45 |

**Poster discussion:** New diagnostic tools for sleep and breathing and healthcare provision options

**Disease(s):** Sleep and breathing disorders

**Method(s):** Physiology  General respiratory patient care  Public health

**Chairs:** Sebastian Ott (Bern, Switzerland), Winfried J. Randerath (Solingen, Germany)

<p>| PA2247 | Estimation of AHI using a single-channel EEG and home polygraphy signals | Jade Vanbuis (Angers, France), Abdelkebir Sabil, Guillaume Baffet, Mathieu Feuilloy, Nicole Meslier, Frederic Gagnadoux |
| PA2248 | Deep learning for scoring sleep based on cardiorespiratory signals as compared to auto and multiple manual sleep scorings based on neurological signals | Peter Anderer (Wien, Austria), Pedro Fonseca, Marco Ross, Arnaud Moreau, Andreas Cerny, Xavier Aubert, Mareike Klee |
| PA2249 | Detection and characterization of apneas using tracheal sound and suprasternal pressure signals | Thomas Penzel (Berlin, Germany), Abdelkebir Sabil, Alexandra Günther, Martin Glos, Christoph Schöbel, Ingo Fietze |
| PA2250 | Multicentral Validation of automatic UWB Radar Algorithm Compared with Polysomnography in Adolescents | Yong Zhou (Hangzhou (Zhejiang), China), Kejing Ying, Enguo Chen, Guangyue Qin, Degui Shu, Jianjun Wang |
| PA2251 | Efficacy of a FOT-based auto-CPAP device for the treatment of obstructive sleep apnea | Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Norbert Anduleit, Karin Pietruska, Matthias Schwaibold, Winfried J. Randerath |
| PA2252 | Fixed-pressure CPAP versus auto-adjusting CPAP: Comparison of efficacy in obstructive sleep apnoea (OSAS) according to the individual level of efficient pressure and pressure variability. | Vanessa Bironneau (Angers, France), Frederic Gagnadoux, Pierre Ingrand, Sandrine Pontier, Carmen Iamandi, Lorent Portel, Francis Martin, Anne Mallart, Lionel Lerousseau, Didier Alfandary, Virginie Levrat, Florence Portier, Renaud Tamisier, Frederic Goutorbe, Claudio Rabec, Francois Codron, Guy Auregan, Magalie Mercuy, Valerie Attali, Franck Soyez, Claire Lauinois, Didier Recart, Marie-Francoise Vecchierini, Jean-Claude Meurice |
| PA2253 | Improved adherence with PAP therapy after switching from CPAP to bilevel for non-compliant OSA patients | Adam Benjafield (San Diego, United States of America), Atul Malhotra, Kate Valentine, Dongquan Liu, Yang Yan, Peter Cistulli, Holger Woehrle, Carlos Nunez, Jeff Armitstead, Jean-Louis Pepin |
| PA2254 | Residual excessive sleepiness in long term CPAP-treated patients: a leak problem? | Marie-caroline ROTTY (montpellier, France), Marie-caroline ROTTY, Jean-Pierre Mallet, Carey M. Suesh, Christian Martinez, Arnaud Boursin, Nicolas Molinari, Dany Jaffuel |
| PA2255 | Sleep disordered breathing (SDB): respiration simulation on a bench integrating polygraph data | Shuo Liu (Ivry Sur Seine, France), Shuo Liu, Yann Retory, Amelie Sagniez, Sebastien Hardy, Francois Cottin, Gabriel Roisman, Michel Petitjean |
| PA2256 | Certification of fitness to drive in sleep apnea patients – are we doing the right thing? | Ludger Grote (Göteborg, Sweden), Sven Svedmyr, Kristina Andelid, Ding Zou, Lena Engelmark, Jan Hedner |
| PA2257 | Effects on CPAP use of a patient support mobile app | Heather Engleman (Edinburgh (Edinburgh), United Kingdom), Christy Stitt, Lauren Creswick, Nuno Cachada, Matthew Thomas, Jonathan Leahy, Sarah Martin, Neena Derashki, Tom Kelly |</p>
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2258</td>
<td>Telemedicine(TM)-based strategy for management of obstructive sleep apnea (OSA): Virtual sleep unit</td>
<td>Vera Marcela Lugo Arrúa (Barcelona, Spain), Onintza Garmendia, Monique Suarez, Marta Torres, Concepción Ruiz, Ramón Farré, Josep Maria Montserrat</td>
</tr>
<tr>
<td>PA2259</td>
<td>Primary Care Physicians Can Comprehensively Manage Sleep Apnea Patients using a semi-automatic algorithm</td>
<td>Mª Ángeles Sanchez Quiroga (Plasencia, Spain), Jaime Corral Penafiel, Carmen Carmona Bernal, Maria Isabel Asensio Cruz, Marta Cabello, Mª Ángeles Martinez Martinez, Carlos Javier Egea Santaolalla, Estrella Ordax, Ferran Barbe, Juan Fernando Masa Jimenez</td>
</tr>
<tr>
<td>PA2260</td>
<td>A big data analysis of ASV therapy pressures</td>
<td>Adam Benjafield (San Diego, United States of America), Dongguan Liu, Haixiang Shi, Holger Woehrlre, Peter Cistulli, Jeff Armitstead, Carlos Nunez, Jean-Louis Pepin, Atul Malhotra</td>
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<tr>
<td>PA2261</td>
<td>Clinical and cost-effectiveness of a mandibular advancement device versus continuous positive airway pressure in moderate obstructive sleep apnea: a randomized controlled trial</td>
<td>Grietje E. De Vries (Groningen, Netherlands), Aarnoud Hoekema, Karin M. Vermeulen, Johannes Claessen, Wouter Jacobs, Jan Van Der Maten, Han Van Der Hoeven, Boudewijn Stengenga, Huib Kerstjens, Peter Wijkstra</td>
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<tr>
<td>PA2262</td>
<td>Impact of lifestyle modification as part of a sleep service on CPAP requirement</td>
<td>Kay Roy (St Albans (Hertfordshire), United Kingdom), Glenda Esmond, David Evans</td>
</tr>
<tr>
<td>PA2263</td>
<td>Randomized trial of oropharyngeal exercises plus incentive spirometry on patients with mild to moderate obstructive sleep apnea syndrome</td>
<td>Prapun Kittivoravitkul (Bangkok, Thailand), Chonlada Laohaviranit, Sorakai Wongpaiboonwatana</td>
</tr>
<tr>
<td>PA2264</td>
<td>Treatment of sleep-disordered breathing with positional therapy: long-term results</td>
<td>Julien Beyers (Edegem, Belgium), Marijke Dieltjens, Chloë Kastor, An Boudewyns, Ilse De Volder, Ann Van Gastel, Johan A Verbraecken, Wilfried A De Backer, Marc J Braem, Paul H Van De Heyning, Olivier M Vanderveken</td>
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7.3J Session 256 10:45 - 12:45

Poster discussion: Respiratory epidemiology: from COPD to factors that associate with lung function and infections

Disease(s): Sleep and breathing disorders Airway diseases Respiratory infections Respiratory infections

Method(s): Cell and molecular biology Public health General respiratory patient care Epidemiology

Chairs: Christer Janson (Uppsala, Sweden), Jennifer Quint (Wimbledon, United Kingdom)

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<th>Poster Number</th>
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<th>Authors</th>
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<tr>
<td>PA2265</td>
<td>Late Breaking Abstract - Dysanapsis is a major determinant of airflow limitation among older adults</td>
<td>Benjamin Smith (New York, United States of America), Andrea Benedetti, Norrina B. Allen, Alain Bertoni, Markus Hilpert, David R. Jacobs Jr., Joel D. Kaufman, Ching-Long Lin, Erin D. Michos, Elizabeth Oelsner, Karol E. Watson, Eric A. Hoffman, R. Graham Barr</td>
</tr>
<tr>
<td>PA2266</td>
<td>Late Breaking Abstract - The population attributable risks (PAR) for chronic airflow obstruction (CAO) in 40 BOLD study centres worldwide.</td>
<td>Peter Burney (London, United Kingdom), Jaymini Patel, Cosetta Minelli</td>
</tr>
<tr>
<td>PA2267</td>
<td>Incidence of airflow obstruction over 20 years in Europe</td>
<td>Simone Accordini (Verona (VR), Italy), Lucia Calciano, Alessandro Marcon, Giancarlo Pesce, Josep Antó, Anna Beckmeyer-Borowko, Angelo Corsico, Medea Imboden, Christer Janson, Dirk Keidel, Francesca Locatelli, Cecilia Svanes, Deborah Jarvis, Nicole Probst-Hensch, Cosetta Minelli</td>
</tr>
<tr>
<td>PA2268</td>
<td>Results from the Argentinean AATD Screening Program 2010-2017</td>
<td>Victoria Lorenzon (Ciudad Autónoma Buenos Aires, Argentina), Soledad Saenz, Mariano Fernandez Acquier, Guillermo Menga, Martin Fernandez, Jose Oyhamburu, Patricia Sorroche</td>
</tr>
<tr>
<td>PA2269</td>
<td>The impact of comorbidities on mortality in COPD, report from the OLIN COPD study.</td>
<td>Sami Sawalha (Boden, Sweden), Linnea Hedman, Helena Backman, Eva Rönmark, Bo Lundbäck, Nikolai Stenfors, Anne Lindberg</td>
</tr>
<tr>
<td>PA2270</td>
<td>Long-acting inhalation treatment and the risk of urinary tract infection – a symmetry analysis</td>
<td>Daniel Pilsgaard Henriksen (Odense C, Denmark), Christian B. Laursen, Jane Winkel Sterndorf, Jesper RoMhild Davidsen, Jesper Hallas</td>
</tr>
<tr>
<td>PA2271</td>
<td>The effect of inhaler switching on asthma and COPD patients</td>
<td>Chloe Bloom (London, United Kingdom), Ian Douglas, Liam Smee, Jenni Quint</td>
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<tr>
<td>PA2272</td>
<td>Comparing objective inhaler use among COPD and Asthma populations</td>
<td>Heather Hoch (Denver, United States of America), Leanne Kaye, William Anderson, Rahul Gondalia, Meredith Barrett, Michael Tuffli, David Van Sickle, Stanley Szefer, David Stempel</td>
</tr>
</tbody>
</table>
Persistence to COPD therapies and impact on exacerbations: a French claims data study
Faustine Dalon (Lyon, France), Gilles Devouassoux, Manon Belhassen, Gaelle Nachbaur, Camille Correia Da Silva, Lynda Sail, Christos Chouaid, Eric Van Ganse

The impact of patient characteristics on the Minimal Clinically Important Difference of COPD health status tools
Harma J. Mol-Alma (Groningen, Netherlands), Corina De Jong, Danijel Jelusic, Michael Wittmann, Michael Schuler, Robbert Sanderman, Konrad Schultz, Janwillem Kocks, Thys Van Der Molen

Follow-up desaturation in 6 minute walk tests and lung function decline in COPD patients
Marie Johanne Waatevik (Bergen, Norway), Tomas Eagan, Francisco Real, Jon Hardie, Per Bakke, Bente Frisk, Ane Johannessen

Impact of morning symptoms on 18-mo COPD outcomes across psychological distress status: a population-based study
Gregory Moullec (Montréal (QC), Canada), Wan Tan, Pei Zhi Li, Norbert Feigler, Jean Bourbeau - On Behalf Of The Cancold Group

Pneumonia vs non-pneumonia in COPD exacerbations – different risks?
Gunnar Reksten Husebø (Fana, Norway), Rune Grønseth, Sverre Lehmann, Birger Lærum, Tomas Mikal Eagan

Association between type 2 diabetes, prediabetes and lung function: Results from the KORA cohort
Stefan Karrasch (Neuherberg, Germany), Vanessa Jäger, Barbara Thorand, Cornelia Huth, Kathrin Kahnert, Wolfgang Rathmann, Annette Peters, Dennis Nowak, Rudolf A. Jörres, Holger Schulz

Blood cell counts and C-reactive protein in relation to lung function in NHANES 2007-2010
Elisabet Nerpén (Falun, Sweden), Fonseca A João, Tiago Jacinto, Kjell Alving, Christer Jansson, Andrei Malinovschi

Low dehydroepiandrosterone sulfate (DHEA-S) is associated with worse lung function in women.
Giancarlo Pesce (Paris, France), Kai Triebner, Diana Van Der Plaat, Dominique Courbon, Alessandro Marcon, Simone Accordini, Josep Anto, Sandra Dorado-Arenas, Jose Guillen, Jose Sanchez-Ramos, Isabelle Pin, Péralin Gislon, Kjell Törén, Bertil Forsberg, Eva Lindberg, Elizabeth Zemp, Rain Jogi, Shyamali Dharmage, Nicole Probst, Deborah Jarvis, Judith Garcia-Aymerich, Francisco Gomez-Real, Benedicte Leynaert

Nontuberculous mycobacterial disease within UK primary care, 2006-2016
Eleanor Axson (London, United Kingdom), Chloe Bloom, Marko Obradovic, Roald Van Der Laan, Jennifer Quint

Sex differences in bronchiectasis patient characteristics: an analysis of the EMBARC cohort

No Room

Game Zone: GAME ZONE - SESSION 4

Ultrasound
Cristina Avram (Manchester (Greater Manchester), United Kingdom), Sofia Romani (Roma (RM), Italy), Angela Lopez Bauza (, Spain)

Interventional Bronchoscopy
Michelle Andrea Espinoza Solano (Sevilla, Spain)

Thematic poster: Critically ill patients: prognostic factors and biomarkers

Method(s) : Physiology  General respiratory patient care  Surgery  Respiratory intensive care
Chairs : Anna Fleur Schreiber (Torino (TO), Italy), Claudia Crimi (Catania (CT), Italy), Miquel Ferrer Monreal (Barcelona, Spain), Chair to be confirmed

Short and long-term prognosis of elderly patients (pts) subjected to invasive mechanical ventilation (IMV) in the intensive care unit (ICU)
Paula Ines Pedro (Odivelas, Portugal), Rui Gomes, Lucinda Oliveira, Antero Fernandes

Quality of life before intensive care unit admission and its influence on mortality: Preliminary results
Ezgi Özyilmaz (Adana, Turkey), Ozlem Ozkan Kuscu, Gulsah Orhan, Emre Karakoc, Gulsah Seydaoglu, Rengin Guzel
<table>
<thead>
<tr>
<th>PA2294</th>
<th>Early identification of patients at risk for acute respiratory distress syndrome among severe pneumonia: a retrospective cohort study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jian Luo (Chengdu (Sichuan), China), Jian Luo (Chongqing (Chongqing), China), He Yu, Yuehong Hu, Dan Liu, Yiwei Wang, Maojun Wang, Bimiao Liang, Zongan Liang</td>
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</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PA2295</th>
<th>Delirium as a predictor of high flow nasal cannula failure in patients with acute respiratory failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryosuke Imai (Tokyo, Japan), Ryosuke Tsugitomi, Torahiko Jinta, Ui Yamada, Kazuhiro Aoki, Tomohide Tamura</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA2296</th>
<th>Factors affecting success of high flow oxygen therapy in acute hypoxemic respiratory failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emel Eryüksel (Istanbul, Turkey), Huseyin Arikan, Umut Kasapoglu, Erdem Yalcinkaya, Aysen Erer, Sehzaz Olgun Yildizeli, Sait Karakurt</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA2297</th>
<th>Predicting factors for the failure of high flow nasal cannula therapy in patients with acute respiratory failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seung Hoon Kim (Suwon, Republic of Korea), Chi Hong Kim, Shin Young Kim, So Hyang Song, Sung Kyoung Kim</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA2298</th>
<th>Implementation of educational measurement for adjustment of target saturation in patients of intensive care unit: cross-sectional study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aline Heidemann (Campinas, Brazil), Bianca Ferrari, Gabriela Nahas, Lidiane Souza, Rodrigo Tonella, Desanka Dragosavac, Luciana Figueiredo, Erica Gastaldi</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>PA2299</th>
<th>Impact of early antibiotic therapy (EAT) on outcome of patients with sepsis at the emergency room of National Kidney and Transplant Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irene Rosellen Tan (Manila, Philippines), Myrna Mendoza</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PA2300</th>
<th>A retrospective observational study of predictive correlation of pre-operative respiratory status with post-operative course(hospital stay, ICU &amp; assisted ventilation).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bharat Toshniwal (Nanded (Maharashtra), India), Gauri Godbole, Vinip Aggarwal, Hardik Patel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA2301</th>
<th>Peripheral venous blood gas analysis versus arterial blood gas analysis for the diagnosis of respiratory failure and metabolic disturbance in adults.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthony Byrne (Sydney (NSW), Australia), Michael Bennett, Rebecca Symons, Robindro Chaterji, Nathan Pace, Paul Thomas</td>
<td></td>
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</tbody>
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<tr>
<th>PA2302</th>
<th>Increased bronchoalveolar lavage fluid peroxiredoxin 6 levels in acute respiratory distress syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dong Yang (Shanghai, China), Xiaocen Wang, Jie Liu, Chen Bao, Yuanlin Song</td>
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</tbody>
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<table>
<thead>
<tr>
<th>PA2303</th>
<th>eNAMPT as a novel diagnostic and prognostic biomarker in critically ill septic patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irene Karampela (Athens, Greece), Evangelia Kandri, Gerasimos-Socrates Christodoulatos, Evangelia Chrysanthopoulou, George Skyllas, George Antonakos, Evangelos Voyatzakis, Apostolos Armaganidis, Maria Dalamaga</td>
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<tr>
<th>PA2304</th>
<th>Resistin may predict severity and mortality in critically ill septic patients</th>
</tr>
</thead>
<tbody>
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<td>Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulatos, Evangelia Kandri, Evangelia Chrysanthopoulou, George Skyllas, George Antonakos, Evangelos Voyatzakis, Apostolos Armaganidis, Maria Dalamaga</td>
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<tr>
<th>PA2305</th>
<th>Circulating eNAMPT and resistin as emerging biomarkers in sepsis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irene Karampela (Athens, Greece), Evangelia Kandri, Gerasimos-Socrates Christodoulatos, George Skyllas, Evangelia Chrysanthopoulou, George Antonakos, Evangelos Voyatzakis, Apostolos Armaganidis, Maria Dalamaga</td>
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</tbody>
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<tr>
<th>PA2306</th>
<th>Effect of body mass index on B-type natriuretic peptide levels in critically ill patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jae Joon Hwang (Seoul, Republic of Korea), Seoung Woo Han, Yong Suk Jo, Kyung Won Kim, Cheon Woong Choi</td>
<td></td>
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</tbody>
</table>

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<thead>
<tr>
<th>PA2307</th>
<th>Comparation of acid-base interpretation by Henderson-Hasselbach, base excess and Stewart methods using SMART MEDIC application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yusup Subagio Sutanto (surakarta, Indonesia), Dian Apriliana, Reviono Reviono, Jatu Aphridasari, Dewi Nurul Makhabah, Sukirman Siswanto</td>
<td></td>
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</tbody>
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<thead>
<tr>
<th>PA2308</th>
<th>Procalcitonin and clinical pulmonary infection score as predictors of stroke associated pneumonia.</th>
</tr>
</thead>
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<tr>
<td>Alaa Metwaly (Zagazig, Egypt), Takwa Hussieny, Hanaa Hosny</td>
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<tr>
<th>PA2309</th>
<th>Follow-up of the TIE index can predict success at prolonged weaning</th>
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<tr>
<td>Leonardo Souza (Rio De Janeiro (RJ), Brazil), Bruno Guimarães, Fernando Guimarães, Jocemir Lugon</td>
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</tr>
</tbody>
</table>

**Session 263**
**12:50 - 14:40**

**Thematic poster: Preclinical and clinical studies of critical illness**

**Disease(s):** Respiratory critical care, Respiratory infections, Airway diseases, Thoracic oncology, Pulmonary vascular diseases

**Method(s):** Surgery, Physiology, General respiratory patient care, Public health, Imaging, Cell and molecular biology, Respiratory intensive care
Chairs: Antonio Artigas (Sabadell (Barcelona), Spain), Kristian Brat (Brno, Czech Republic), Raquel Guillamat-Prats (Barcelona, Spain), Marta Camprubí-Rimblas (Molins de Rei, Spain)

PA2310 Late Breaking Abstract - Effect of Hypercapnia in human primary culture of alveolar cells in vitro
Marta Camprubí-Rimblas (Molins de Rei, Spain), Josep Bringue, Luis Morales, Neus Tantinya, Antonio Artigas

PA2311 Effect of a newly developed cytokine adsorption column in a rat model of acute lung injury.
Yuhei Yoshida (Sagamihara, Japan), Miwako Kanemaru, Kozue Kobayashi, Kenichi Kobu, Hirosuhe Kobayashi

PA2312 Antithrombin plus alpha–1 protease inhibitor does not affect pulmonary inflammation and coagulation in a ‘double-hit’ lung injury model
Jenny Juschten (Amsterdam, Netherlands), Sarah Anna Ingelse, Matthias Adrie Willem Maas, Armand Ro Jo Girbes, Nicole Pi Juffermans, Marcus Ju Schultz, Pieter Roel Tuinman

PA2313 Hypoxia aggravates failure of autoresuscitation in a rat model of LPS-induced endotoxemia.
Zhanna Donina (St. Petersburg, Russian Federation)

PA2314 Breathing disorders and survival during inflammation associated with severely hypoxia depends from prostaglandin-mediated pathway.
Elizaveta Baranova (St. Petersburg, Russian Federation)

PA2315 The use of aerosolized prostaglandins is associated with improvements in gas-exchange but no difference in hemodynamics in critically ill patients
Roberto Bernardo (Oklahoma City, United States of America), Huzaifa Jaliawala, Brent Brown

PA2316 Improvement of ventilation-induced diaphragm dysfunction through toll-like receptor 4 and nuclear factor-κB in a murine sepsis model
Li-Fu Li (Kweishan (Taoyuan), Taiwan), Chih-Hao Chang, Li-Chung Chiu

PA2317 Nebulizer Location and spontaneous breathing on Aerosol Delivery during Airway Pressure Release Ventilation in Adult Lung Model
Huiqing Ge (Zhengzhou (Zhejiang), China), Jimei Wang

PA2318 Use of I-Gel facilitates percutaneous dilatational tracheostomy in the ICU. A preliminary report
Aniello De Nicola (Pompei (NA), Italy), Maria José Sucre

PA2319 Computational modelling of oxygen insufflation during apnoea in obesity.
Mariana Laviola (Nottingham, United Kingdom), Anup Das, Declan G. Bates, Jonathan G. Hardman

PA2320 Magnesium sulphate as an adjuvant therapy in critically ill infants and children presenting with wheezy chest in addition to standard treatment
Yasmin Saied (Cairo, Egypt), Hala Hamdy, Hafez Bazzara, Hanana Rady, Sherif Elanwary

PA2321 Bacteriological structure of lower respiratory tract infections in ICU patients of a single tertiary care medical center in Central Kazakhstan
Aigerim Yergaliyeva (Astana, Kazakhstan), Nelya Bisenova

PA2322 Early corticosteroid in influenza pneumonia related acute respiratory distress syndrome treated with extracorporeal membrane oxygenation
Yu-San Chien (Taipei City, Taiwan), Chen-Yen Chien, Jiun-Yi Li

PA2323 The burden of respiratory infections caused by resistant bacteria and need for antibiotics stewardship program in Balochistan, Pakistan
Muhammad Uyghur (Quetta, Pakistan)

PA2324 Pulmonary physician consultancy in emergency services in Turkey (PUPCEST) – a prospective multicenter study
Özlem Erçen Diken (Çorum, Turkey), Aydanur Ekici, Hayriye Bektas, Hanifi Yildiz, Ali Tabar, Nalan Ogan, Pinar Yildiz

PA2326 Thematic poster: Muscles and diaphragm, and quality improvement

TP-03 Session 264 12:50 - 14:40

Thematic poster: Muscles and diaphragm, and quality improvement
### Disease(s):
- Respiratory critical care
- Airway diseases
- Interstitial lung diseases
- Respiratory infections
- Respiratory infections

### Method(s):
- Transplantation
- Physiology
- Imaging
- General respiratory patient care
- Respiratory intensive care

### Chairs:
- Alexandre Demoule (Paris, France)
- Christian Bruells (Aachen, Germany)
- Julien Guiot (Liège, Belgium)
- Christoph Fisser (Regensburg, Germany)

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2328</td>
<td>Different loads of inspiratory muscle training in mechanical ventilation weaning: randomized trial</td>
<td>Ligia Roceto Ratti (Valinhos, Brazil), Rodrigo Tonella, Luciana Figueiredo, Ivete Saad, Antonio Falcão, Pedro Paulo Martins</td>
</tr>
<tr>
<td>PA2329</td>
<td>Analysis of the involvement of respiratory muscles through the TIE index in patients in ventilatory weaning with surface electromyography</td>
<td>Helson Costa (Rio De Janeiro (RJ), Brazil), Leonardo Souza, Arthur Neto, Marcos David Godoy, Jocemir Lugon</td>
</tr>
<tr>
<td>PA2330</td>
<td>Impact of diaphragmatic mobility in lung aeration loss in critically ill patients</td>
<td>Caroline Gomes Mól (São Paulo, Brazil), Caroline Gomes Mól, Monize Karla Alves Aquino, Renato Batista Reis, Catherine Cely Oliveira, Natália Gomes Benites De Camargo, Rita Ferreira De Souza, Clarice Tanaka</td>
</tr>
<tr>
<td>PA2331</td>
<td>Use of a new protocol of the inspiratory muscle training can be the key to improve survival of patients under prolonged ventilation</td>
<td>Leonardo Souza (Rio De Janeiro (RJ), Brazil), Bruno Guimarães, Fernando Guimarães, Jocemir Lugon</td>
</tr>
<tr>
<td>PA2332</td>
<td>Can you cross-train the inspiratory muscles by repetitive isometric neck flexion?</td>
<td>Wendy Darlene Reid (Toronto ON, Canada), Luana Melo, Masatoshi Hanada, Karl Zabjek</td>
</tr>
<tr>
<td>PA2333</td>
<td>Clinical evidence for respiratory pump insufficiency predicts weaning failure</td>
<td>Friederike Sophie Magnet (Köln, Germany), Hannah Bleichroth, Sophie E. Huttmann, Jens Callegari, Sarah B. Schwarz, Claudia Schmoo, Wolfram Windisch, Jan H. Storre</td>
</tr>
<tr>
<td>PA2334</td>
<td>Floor and ceiling effects of functional status and peripheral muscle strength assessment scales in non-intubated critically ill patients.</td>
<td>Carlos Ramirez Gonzalez (Paulista, PE, Brazil), Shirley Campos, Maria Karoline Richtrmoc, Wagner Leite, Anielle Azevedo, Ananda Silva, Raissa Correia, Wildberg Alencar, Caio Morais, Cyda Reinaux, Daniella Brandão, Maria Da Glória Rodrigues Machado, Armele Dornelas De Andrade</td>
</tr>
<tr>
<td>PA2335</td>
<td>The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure</td>
<td>Fangbo Zhao (Changchun (Jilin), China), Shuang Whang, Hongjing Lin</td>
</tr>
<tr>
<td>PA2336</td>
<td>Pressure support ventilation (PSV) mode vs. (PSV)mode + T-piece trial as a weaning modality in mechanically ventilated chronic obstructive pulmonary disease patients</td>
<td>Ahmed Metwally (Assuit, Egypt), Rafaat El-Sokary, Hassan Abd-Latif, Ghada Ahmed</td>
</tr>
<tr>
<td>PA2337</td>
<td>Effects of Hygrovent Gold versus conventional humidifiers on invasive ventilation efficiency</td>
<td>Annia Fleur Schreiber (Torino (TO), Italy), Piero Ceriana, Manuela Piran, Giuditta Bettinelli, Alberto Malovini, Roberto Colombo, Annalisa Carlucci</td>
</tr>
<tr>
<td>PA2338</td>
<td>Alveolar recruitment improving oxygenation in Acute Respiratory Distress Syndrome: A prospective observational study</td>
<td>Ann Mary Jose (Manipal (Karnataka), India)</td>
</tr>
<tr>
<td>PA2339</td>
<td>A new device to prevent unplanned endotracheal self-extubation in mechanically ventilated patients.</td>
<td>CHEN-CHUN LIN (Taipei City, Taiwan), Hsiu-Li Wu, Szu-Yin Chen</td>
</tr>
<tr>
<td>PA2340</td>
<td>Comparison of pediatric patients managed in the pediatric intensive care unit and other intensive care units</td>
<td>Woo Ri Bae (Seoul, Democratic People's Republic of Korea), Beom Joon Kim, Kyung Hoon Kim, Hye Jin Lee, Jong-Seo Yoon</td>
</tr>
<tr>
<td>PA2341</td>
<td>Clinical outcome of medical emergency team activation according to trigger time</td>
<td>Se Hee Lee (Seoul, Republic of Korea), Jin Won Huh, Sang Bum Hong, Chae Man Lim, Youn Suck Koh</td>
</tr>
<tr>
<td>PA2342</td>
<td>Early noninvasive ventilation in patients with severe community acquired pneumonia with or without ARDS</td>
<td>Yordanka Yamakova (Sofia, Bulgaria), Rosen Petkov, Viktoria Ilieva, Miroslav Mihaylov, Borislav Velev, Ivelina Staneva</td>
</tr>
<tr>
<td>PA2343</td>
<td>Quality Improvement: Implementing NEWS scores at morning board round to improve discussion of sick respiratory patients</td>
<td>Kamatamu Amanda Mbonye (London, United Kingdom), Abigail Slack, Helen Hansford, Aklak Choudhury</td>
</tr>
<tr>
<td>PA2344</td>
<td>Beneficial, but justifiable yet? ECCO2-Removal</td>
<td>Coskun Ates (Edirne, Turkey), Funda Yilmaz, Onur Mert, Idris Kurt, Hunkar Aggul, Zeliha Ademoglu, Meriç Reis, Serdar Efe, Volkan Inal</td>
</tr>
</tbody>
</table>
Accuracy of gas exchange measurements as predictors of early successful weaning among ICU patients of Philippine Heart Center: a Prospective Cohort Study
John Ray Galamay (Quezon City, Philippines), Teresita De Guia, Ma. Encarnita Blanco-Limpin

The complacency could be predictive of TDGE in postoperative cardiac surgery: Croos sectional study?
Aline Heidemann (Campinas, Brazil), Thais Bento, Claudineia Logato, Antonio Falcão, Orlando Petrucci, Luciana Figueiredo, Desanka Dragosavac

Stroke volume change after digoxin loading in septic shock patients with transient left ventricular systolic dysfunction.
Dong Hyun Lee (Busan, Republic of Korea), Jin-Heon Jeong, Bo Hyoung Kang, Soojung Um, Choonhee Son

Thematic poster: Non-invasive ventilation for acute respiratory failure

Late Breaking Abstract - Severe pneumonia patients may not benefit from antibiotic combination therapy and non-invasive ventilation(NIV), despite the advanced mode
BoXue Han (Beijing, China), Xiuli Chen, Lewen Gan, Shanxiang Lei, Zhen Sun, Peipei Du, Lei Sun, Lishun Yue

Late Breaking Abstract - Home ventilators failure : a nation-wide cohort analysis.
Samuel Dolidon (Rouen, France), Boris Melloni, Jean Francois Chabot, Didier Forêt, Eva Tesnière, Antoine Barral, Dominique Leclerc, Johan Dupuis, Gilles Petit, Jean-François Muir, Antoine Cuvelier, Maxime Patout

Predicators of duration of noninvasive ventilation in severe COPD exacerbation
Alexandru Tudor Steriade (Bucuresti, Romania), Shirin Johari, Nicoleta Filip, Cornelia Tudose, Miron Alexandru Bogdan, Dragos Bumbacea

Non-invasive ventilation for acute respiratory failure in the elderly
Rodolfo Ferrari (Bologna (BO), Italy), Elena Martino, Giampaolo Bianchi, Daniela Agostinelli, Riccardo Voza, Marco Zoli, Mario Cavazza

Early predictors of success of Non-invasive ventilation in Acute Hypercapnic respiratory failure
UMESH G (Alappuzha (Kerala), India), L Sundararajan

The rationality of the use of NIV in elderly patients with acute COPD exacerbation
Sava Pejkovska (Skopje, FYROM (Macedonia)), Dejan Dokie, Gorica Breshkovska, Biserka Kaeva, Smilko Jovanoski, Irina Angelovska, Angela Debreslioska

Review of acute NIV outcomes over four years in a university hospital
Joanna Lovett (LONDON, United Kingdom), Nilaami Murugesu, Adil Hasnain, Serena Tan, Terry O'Shaughnessy, Vladimir Macavei

The effect of Post-acute domiciliary non-invasive ventilation (NIV) on hospital admissions and length of stay (LOS)
Alana Livesey (Birmingham (West Midlands), United Kingdom), Amy Oakes, Pearlene Antoine-Pitterson , Emma Gallagher, Biman Chakraborty, Rahul Mukherjee

Ward-based Non-invasive ventilation (NIV) as Ceiling of Care in Acute Hypercapnic Respiratory Failure (AHRF)
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pearlene Antoine-Pitterson, Amy Oakes, Biman Chakraborty, Rahul Mukherjee

Non-invasive ventilation in acute respiratory failure in a pulmonary ward: chronic obstructive pulmonary disease versus other indications
Denny Marques Rodrigues (Minde, Portugal), João Pedro Neiva Machado, José Costa, Teresa Costa

Outcomes of noninvasive ventilation in immunosuppressed patients with acute respiratory failure due to pneumonia
Imren Nesil (Izmir, Turkey), Pervin Korkmaz Ekren, Feza Bacakoglu

Outcomes of a co-ordinated MDT approach to the delivery of acute NIV
Robert Free (Leicester (Leicestershire), United Kingdom), Liam Curry, Clare Rossall, Liz Pulford, Irene Valero, Schnell D'Sa, Richard Walton, Thomas Grew, Gerrit Woltmann, Rachael Evans
Sleep quality during home noninvasive ventilation (NIV).
Jasmine Sutter (Caen, France), Raphael Łukaszewicz , Julien Maris, Florence Portier, Adriana Portmann, Antoine Cuvelier, Maxime Patout

The impact of late presentation of acidotic hypercapnic respiratory failure in hospitalised COPD patients on outcome following non-invasive ventilation.
Samuel Trethewey (Birmingham (West Midlands), United Kingdom), Ross Edgar, Julien Morlet, Rahul Mukherjee, Alice Turner

Assessment of Noninvasive Ventilation in COPD patients requiring Respiratory Critical Care
Kushal Chidgupkar (Solarpur (Maharashtra), India), Anita Anokar, Medha Bargaje, Ram Deoskar, Shivakumar Iyer

Non invasive ventilation in elderly COPD with do not intubate order
Dejan Radovanovic (Milano (MI), Italy), Maurizio Rizzi, Francesca Frassanito, Andrea Airoldi, Andrea Cristiano, Silvia Vanni, Paolo Gaboardi, Pierachille Santus

Electrical impedance tomography in evaluating the effects of non-invasive ventilation in the post-operative cardiac surgery: randomized controlled clinical trial
Daniella Brandao (Recife (PE), Brazil), Alita De Novaes, Armêlo Dornelas De Andrade, Shirley Campos, Norma Módolo, Christian Gonçalves, Caio Moraes, Catarina Rattes, Wagner Leite, Wildberg Lima

A dynamical model for patient-ventilator interactions during noninvasive ventilation
Emeline Fresnel (Saint Etienne du Rouvray, France), Adrien Kerfourn, Jean-François Muir, Maxime Patout, Antoine Cuvelier

Evolving indications and demographics for domiciliary Non-Invasive Ventilation (NIV) at an acute hospital based NIV service
Alana Livesey (Birmingham (West Midlands), United Kingdom), Pearlene Antoine-Pitterson, Amy Oakes, Pradeep Mallisetty, Alice Turner, Rahul Mukherjee

Does adherence to domiciliary NIMV decrease the rate of subsequent hospitalizations and cost?
Burec Arpınar Yigitbas (İstanbul, Turkey), Celal Satici, Mustafa Asım Demirkol, Gizem Koybasi, Ayse Filiz Kosar
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2375</td>
<td>Temporal trends in the initiation of domiciliary non-invasive ventilation (NIV)</td>
<td>Alana Livesey (Birmingham (West Midlands), United Kingdom), Pearlene Antoine-Piterson, Amy Oakes, Clare Williams, Biman Chakraborty, Rahul Mukherjee</td>
</tr>
<tr>
<td>PA2376</td>
<td>Noninvasive ventilation (NIV) adherence for chronic respiratory failure treatment</td>
<td>Gurvan Le Bouar (Franqueville-Saint-Pierre, France), Déborah Boyer, Elise Artaud-Macari, Luis Carlos Molano, Catherine Via croze, Antoine Cuvelier, Maxime Patout</td>
</tr>
<tr>
<td>PA2377</td>
<td>Inspired oxygen fraction during non-invasive ventilation: the influence of flow rates, masks, exhalation ports and ventilatory settings</td>
<td>Maud Hooûs (Zoetermeer, Netherlands), Rob Hagmeijer, Marieke L. Duiverman</td>
</tr>
<tr>
<td>PA2378</td>
<td>Noninvasive ventilation (NIV) related adverse events</td>
<td>Maxime Patout (Mont-Saint Aignan, France), Christian Caillard, Gregoire Jolly, Kinan El Hussein, Mathilde Le Brun, Marielle De Marchi, Julien Pierchon, Diane Gervereau, Mohamed-Zouhaier Gharsallaoui, Antoine Cuvelier</td>
</tr>
<tr>
<td>PA2379</td>
<td>Do patients on NIV change their NIV use on nights when they have oximetry?</td>
<td>Paul Plant (Leeds (West Yorkshire), United Kingdom), V Yioe, A Khajuria, K Ward, R Angus, B Chakrabarti, N Duffy, R Parker, A Manuel</td>
</tr>
<tr>
<td>PA2380</td>
<td>Overnight monitoring of lung mechanics and Tidal expiratory flow limitation (EFLT) by Forced Oscillation Technique (FOT) in Chronic Obstructive Pulmonary Disease (COPD) receiving non-invasive ventilation (NIV): the impact of sleep and posture</td>
<td>Ilaria Milesi (Milano (MI), Italy), Roberto Porta, Michele Vitacca, Simona Cacciatore, Rossella Trentin, Luca Barbano, Francesco Fanfulla, Raffaele Dellaca</td>
</tr>
<tr>
<td>PA2381</td>
<td>Use of nasal pillows in amiotrophic lateral sclerosis (ALS) patients with high non invasive ventilation (NIV) dependence</td>
<td>Luana Focaraccio (Torino (TO), Italy), Giulia Rovere, Roberta Di Tria, Renza Ambrosanio, Elisa Clivati, Sabrina Marchisio, Giuseppe Tabbia, Caterina Bucca, Alessio Mattei</td>
</tr>
<tr>
<td>PA2382</td>
<td>Home monitoring of transcutaneous PCO2 in children on long term ventilation.</td>
<td>Lucie Griffon (Paris, France), Lucie Griffon, Samira Touil, Annick Frapin, Sonia Khirani, Alessandro Amaddeo, Brigitte Fauroux</td>
</tr>
<tr>
<td>PA2383</td>
<td>PROGNOSTIC FACTORS FOR SUCCESSFUL ADHERENCE WITH NON-INVASIVE MECHANICAL VENTILATION THERAPY.</td>
<td>Sofia Jaurrieta Largo (Valladolid, Spain), Ignacio Lobato Astiárraga, Blanca De Vega Sánchez, María José Chourio Estaba, Ana María Andrés Porras, Ana Isabel García Onieva, Irene Alaejos Pascua, María Beatriz Cartón Sánchez, Isabel Ramos Cancelo, Carlos Disdier Vicente</td>
</tr>
<tr>
<td>PA2384</td>
<td>Non-invasive ventilation in motor neurone disease patients attending the West of Scotland Long-Term Ventilation Unit (WoSLTVU)</td>
<td>Grace Murphy (G51 4TF, United Kingdom), Grace Murphy, Joanne Payne, Alison Clarke, George Gorrie, David Raeside, Scott Davidson</td>
</tr>
<tr>
<td>PA2385</td>
<td>Role of Comorbidities and BMI on the Efficacy of Non Invasive Ventilation in COPD with Chronic Hypercapnia.</td>
<td>Angelo Petroianni (Roma (RM), Italy), Letizia D'Antoni, Jacopo Di Lorenzo, Fatim Zahra El Couhen, Francesca Oriolo, Elda Graziani</td>
</tr>
<tr>
<td>PA2386</td>
<td>Security of removal long- term domiciliary oxygen therapy without indication.</td>
<td>Maria Jose Chourio Estaba, Sofia Jaurrieta Largo, Ignacio Lobato Astiárraga, Blanca De Vega Sánchez</td>
</tr>
<tr>
<td>PA2387</td>
<td>Pressure-controlled versus volume-controlled ventilation in patients affected by amyotrophic lateral sclerosis (ALS).</td>
<td>Grazia Crescimanno (Palermo (PA), Italy), Maria Canino, Francesca Greco, Oreste Marrone</td>
</tr>
<tr>
<td>TP-06</td>
<td>High-flow nasal cannula therapy has the effectiveness for acute respiratory failure including hypercapnic status: a single-centered retrospective study.</td>
<td>Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Yuki Nakamura, Osamu Hataji, Yuta Suzuki, Haruko Saiki, Kentarou Ito, Yoichi Nishii, Gabazza Esteban Cesar</td>
</tr>
</tbody>
</table>
Noninvasive ventilation compared to Albuterol in respiratory mechanics and lung function of asthmatics after bronchoprovocation. Randomized cross-over trial.
Evelim Gomes (São Paulo (SP), Brazil), Maisi David, Adriana Santos, Aldenice Magalhaes, Viviane Alves, Dirceu Costa

High flow nasal cannula: influence of gas type and flow rate on positive airway pressure and CO2 clearance in adult nasal airway replicas
Charles Moore (Edmonton (AB), Canada), Ira Katz, Marine Pichelin, Georges Caillibotte, Warren Finlay, Andrew Martin

An audit of Non-invasive ventilation (NIV) in practice and introduction of an integrated care pathway for the management of acute ventilatory failure in an Irish Hospital.
Ciara Gough (Dublin, Ireland), Catherine Mcgeoghegan, Deirdre Long, Dorothy Ryan

Clinical significance of episodic nocturnal hypercapnia and its treatment with non-invasive positive pressure ventilation in patients with stable advanced chronic obstructive pulmonary disease
Takamasa Kitajima (Osaka, Japan), Satoshi Marumo, Reina Hara, Aya Watanabe, Haruna Yamaki, Hiroshi Shima, Masahiro Shirata, Daiki Inoue, Yuko Katayama, Ryo Itoh, Motonari Fukui

Survival and decision making for tracheotomy in ALS
Natalia Pascual Martinez (Cordoba, Spain), Silvia Martin Bueno, Ana Palomares Muriana, Francisca Montoro Ballesteros, Nuria Feu Collado, Bernabe Jurado Gamez

Evaluation of Low Tidal Volume during General Anesthesia in Prone Position on Respiratory Functions
Mohamed Shahat Badawy (Luxor, Egypt), Ahmed El Saeed, Osama Hamdy, Ahmad Yousef, Marwa Hamed

Comparison between NIV and IMV in young people with neuromuscular diseases in age to transition to adult care.
Alessandro Onofri (Roma (RM), Italy), Martino Pavone, Elisabetta Verrillo, Maria Beatrice Chiarini Testa, Serena Caggiano, Virginia Mirra, Claudio Cherchi, Renato Cutrer

DIFFERENCES BETWEEN PATIENTS WITH INVASIVE, NON INVASIVE VENTILATION and BOTH
Ana Roca Noval (Madrid, Spain), Beatriz Aldave, Tamara Alonso Pérez, Marta Erro Iribarren, Pedro Landete, Enrique Zamora García, Julio Ancochea Bermúdez

Comparative study between functional and endoscopic indicators for Percutaneous endoscopic gastrostomy (PEG) in ALS.
Bebiana Da Conceição Fernandes Palheiros Conde (Vila real, Portugal), Maria Brandão, Sara Raimundo, Rafael Noya, Joao Carlos Winck

Effect of nebuliser position on aerosol performance during high flow nasal therapy
Gavin Bennett (Galway, Ireland), Mary Joyce, Louise Sweeney, Ronan Macloughlin

Cough-augmentation techniques in patients with neuromuscular disease and non-invasive ventilation
Roberto Vera Uribe (Santiago, Chile), Rodrigo Torres-Castro, Luis Vasconcello, Marisol Barros-Poblete, Javiera Rosaless-Fuentes, Gregory Villarroel, Raul Valenzuela, Paola Pontoni, Rebeca Paiva R.

Domiciliary heated high flow cannula therapy delivered with CPAP devices in children
Mirella Gaboli (Sevilla, Spain), Carmen Cabrera Carro, Isabel Delgado Pecellin, Maria Jose Moreno Valero, Macarena Borroto Rodriguez, Alejandro Palomo Pavón, Maria Dolores Garrido López-Cepero

Percutaneous endoscopic gastrostomy insertion in neuromuscular disease patients on home mechanical ventilation
Angela Reddy (London, United Kingdom), Simon Anderson, Lindsay Arrandale, Jason Dunn, Philip Marino, Patrick B. Murphy, Ikram Nasr, Michelle Ramsay, Joerg Steier, Eui-Sik Suh, Huw Thomas, Nicholas Hart, Georgios Kaltsakas

Trigger asynchronies induced by the introduction of external gas into the circuit in non-invasive ventilation: a bench study
Cristina Lalmolda Puyol (Barcelona, Spain), Roberto Larrosa, Manel Luján, Javier Sayas

High flow nasal cannula in patients not suitable for invasive ventilation – are we missing an opportunity for palliative care?
Hazel Morrison (Bridgewater (Somerset), United Kingdom), Georgina Mynott, Robin Jones, Rebecca Hall, Jemima Robinson

Non-invasive ventilation as a first-line treatment for malaria patients with pulmonary dysfunction: A feature of respiratory therapy.
Barbara Santana Davila Melo (Aracaju (SE), Brazil), Rita de Cassia Santa Barbara, Anselmo Costa E Silva, Leonardo Figueiroa, Ana Pascoal, Jurema Real, Ernesto Antonio

High Flow nasal OXygen therapy in high risk patients of hypoxia undergoing diagnostic BRONCHOscopy (HiFOXy-BRONCHO): a prospective, randomized, controlled study
Yeongkyung Park (Seongnam, Republic of Korea), Yeonkyung Park, Youlim Kim, Jisoo Park, Eun Sun Kim, Sang Hoon Lee, Yeon Joo Lee, Jong Sun Park, Ho Il Yoon, Jae Ho Lee, Choon-Taek Lee, Young-Jae Cho
Thematic poster: New methods and concepts in tests of lung and respiratory muscle function

**Disease(s):** Airway diseases, Sleep and breathing disorders, Respiratory critical care

**Method(s):** Imaging, Respiratory intensive care, General respiratory patient care, Physiology

**Chairs:** Christina M. Spengler (Zürich, Switzerland), Luiza Helena Degani-Costa (São Paulo (SP), Brazil), Joaquim Gea Guiral (Barcelona, Spain), Samuel Vergès (Grenoble, France)

**PA2408** Defining and grading an obstructive ventilatory defect (OVD) in 2018
Rim Kammoun (Sfax, Tunisia), Amani Sayhi, Ines Ghannouchi, Souhail Slama, Mohamed Moez Ben Sayah, Halima Ben Salem, Mohamed Ben Saad, Mohamed Salah Tlili, Helmi Ben Saad

**PA2409** Dose omission to shorten methacholine challenge testing: clinical consequences and safety of the use of a "10% fall in FEV1" threshold
Valérie Levesque (Montréal (QC), Canada), Claude Poirier, Bruno-Pierre Dube

**PA2410** Armspan replacing height to reach spirometric reference values
Nuno Filipe Teixeira China Pereira (Porto, Portugal), Aniel@sapo.Ptdaniel Vaz, Joana Gomes, Inês Ladeira, Ricardo Lima, Miguel Guimarães

**PA2411** What is the proportion of patient with asthma, COPD and ILD who have normal auscultatory lung sounds?
Neerja Shastri (Pune (Maharashtra), India), Shirikant Pawar, Sundeep Salvi, Sushma Jadhav, Vandana Das, Yogesh Thorat

**PA2412** Comparison of GLI 2012 and NHANES III for diagnosing airflow obstruction in Vietnamese patients at Ho Chi Minh City
Tai Tran Quoc (Ho Chi Minh, Vietnam), Lan Le Thi Tuyet

**PA2413** The Usefulness of Forced Oscillation Technique to assess lung functions in Patients with Lysosomal Storage Diseases
Afat Alblooshi (Al-Ain, United Arab Emirates), Abdul-Kader Souid, Fatma Al Jasmi, Alison John (alison.john@nottingham.ac.uk / University of Nottingham, Nottingham), Stefan Offermanns (stefan.offermanns@mpi-bn.mpg.de / Max Planck Institute for Heart and Lung Research, Bad Nauheim), Gisli Jenkins (gisli.jenkins@nottingham.ac.uk / University of Nottingham, Nottingham)

**PA2414** Non-invasive measurement of lung inhomogeneity in patients who suffered a primary spontaneous pneumothorax
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Nick Smith, Nayia Petousi, Nick Talbot, Grant Ritchie, Najib Rahman, Peter Robbins

**PA2415** Acoustic wave propagation in the tracheobronchial tree in healthy and asthmatic subjects
Andrea Aliverti (Milan, Italy), Lorenzo Aliboni, Francesca Pennati, Thomas Royston

**PA2416** Assessment of ventilatory mechanics in respiratory muscle weakness using structured light plethysmography
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), James Stockley, Liam O'Reilly

**PA2417** Validation of breathing frequency algorithms in impedance pneumography
Carol Smyth (Salford (Lancashire), United Kingdom), John Dickinson, Samantha Winter

**PA2418** Validation study of the AirGo™ device for continuous monitoring of respiratory function
Andrea Antonelli (Cuneo (CN), Italy), Alessia Stanzi, Federico Mazza, Massimiliano Venturino, Paolo Noceti, Dario Giulizzoni, Andrea Aliverti, Giulio Mellon

**PA2419** Baseline FeNO is an independent predictive marker of Exercise-Induced Bronchoconstriction (EIB)
Matteo Bonini (London, United Kingdom), Jacopo Messina, Simone Petraruolo, Daniel Piamonti, Marcello Di Paolo, Marco Brunori, Paolo Palange, Omar Usmani

**PA2420** Pilot data of the short-term effects of e-cigarette vaping on lung function
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), James Stockley, Elizabeth Sapey, Simon Gompertz, Ross Edgar

**PA2421** Alterations in oxygen consumption during acute exacerbations of COPD
Alice Cottee (Sydney (NSW), Australia), Leith Seccombe, Cindy Themrin, Gregory King, Matthew Peters, Claude Farah
Effect of inhaled vaporized cannabis on dynamic airway function, breathlessness and exercise intolerance in adults with advanced COPD: A randomized controlled trial
Sara Abdallah (Montréal (QC), Canada), Benjamin Smith, Mark Ware, Michelle Moore, Pei Zhi Li, Jean Bourbeau, Dennis Jensen

Changes in lung function in a rodent model of diabetes mellitus
Roberta Súdy (Szeged, Hungary), Álmos Schranc, Bence Ballók, Jozsef Tolnai, Barna Babik, Ferenc Peták

Impact of natural sleep, sedation and hypercapnia on physiological ventilation variability: an experimental study
André dos Santos Rocha (Genève, Switzerland), Gergely H Fodor, Sam Bayat, Walid Habre

The effects of variable ventilation patterns in an animal model of ARDS
Gergely H. Fodor (Genève, Switzerland), Andre Dos Santos Rocha, Gergely Albu, Ferenc Petak, Sam Bayat, Walid Habre

Chest wall and pulmonary contributions to the total respiratory airway and tissue mechanics in rats: effects of altered lung volume
Ferenc Peták (Szeged, Hungary), Roberta Súdy, Álmos Schranc, Bence Ballók, Barna Babik, Gergely Fodor, Walid Habre, József Tolnai

Assessment of shape factors and dead space indices by volumetric capnography in rats
József Tolnai (Szeged, Hungary), Roberta Súdy, Barna Babik, Ferenc Peták

TP-08  Session 269  12:50 - 14:40
Thematic poster: The value of lung function testing in various pathophysiological conditions

Disease(s) :
- Airway diseases
- Respiratory infections
- Thoracic oncology
- Sleep and breathing disorders
- Pulmonary vascular diseases

Method(s) :
- Transplantation
- General respiratory patient care
- Imaging
- Physiology

Chairs :
- Maurice Hayot (Montpellier Cedex 5, France), Vassileios Andrianopoulos (Schönau am Königssee, Germany), Georgios Kaltsakas (Athens, Greece), Roberto A. Rabinovich (Edinburgh (Scotland), United Kingdom)

Detection of late post stem cell transplantation lung function deterioration using simple spirometry.
Eyal Fuchs (Haifa, Israel), Emilia Hardak

Lung clearance index (LCI) as a sensitive marker of post-transplant bronchiolitis obliterans syndrome (BOS)
Madeleine Driskel (Manchester, United Kingdom), Alexander Horsley, Mohamed Al-Aloul

Pulmonary function and physical capacity in children with congenital heart disease
Roberto Acosta-Dighero (Santiago, Chile), Rodrigo Torres-Castro, Iván Rodríguez-Núñez, Mercedes Guevara, Bernardita Lopetegui

Respiratory and Motor Phenotypes and Correlations with Diaphragm Function in Patients with Late-Onset Pompe Disease (LOPD)
Andrea Da Nobrega Cirino Nogueira (Fortaleza (CE), Brazil), Lígia Silveira Marinho, Renata Dos Santos Vasconcelos, Suzy Maria Montenegro Ponte, Nancy Delma Silva Vega Canjura Sousa, Juliete Vaz Ferreira, Patricia Carvalho Bezerra, Miguel Angelo Nobre E Sousa, Marcelo Alcantara Holanda

Prognostic value of lung membrane conductance in sickle cell disease
Antoine Beurnier (Nantes, France), Julie Gravelleau, Thierry Le Tourneau, Agathe Masseau, Bruno Degano, Bérangère Ricolleau, François-Xavier Blanc, Arnaud Chambellan

Mepolizumab improves small airway function in severe eosinophilic asthma
Leigh Secombe (Sydney (NSW), Australia), Peter Rogers, Nicola Reed, Tanya Badal, Cindy Thamrin, Greg King, Matthew Peters, Claude Farah

A new score to identify patients who need fitness to fly test
Giulia Spoletini (Leeds (West Yorkshire), United Kingdom), Akhil Sawant, Sue Watts, Mark Townson, Paul Whitaker, Ian Clifton, Tim Sutherland, Mark Elliott, Daniel Peckham

Can baseline lung function and arterial oxygenation predict air travel hypoxaemia in respiratory patients?
Ana Lutas (Lisboa, Portugal), Mónica Marques Grajino, Filipa Todo Bom, Maria Margarida Felizardo, Richard Staats, Marco Pereira, Teresa Pequito, Ana Ladeira, Joao Valenca, Sofia Furtado

The respiratory physiome: clustering based on a comprehensive lung function assessment in patients with COPD
Ingrid Augustin (Horn, Netherlands), Martijn A. Spruit, Sarah Houben-Wilke, Frits Franssen, Lowie Vanfleteren, Swetlana Gaffron, Daisy Janssen, Emiel Wouters
<table>
<thead>
<tr>
<th>PA2438</th>
<th>PREVALENCE OF ABNORMAL SPIROMETRIC RESULTS AMONG TEENAGERS: RESULTS FROM LUNG DEVELOPMENT PROJECT OF THE UNIVERSITY OF GRANADA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedro José Romero Palacios (Granada, Spain), Oliverio Ruiz Rodriguez, Alba Mateos Romero, Antonio Dueñas Ruiz, Elvira Ruiz Castellano, Bernardino Aleazar Navarrete</td>
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</tbody>
</table>

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<thead>
<tr>
<th>PA2439</th>
<th>The effect of 1-week treatment with permitted inhalation or prohibited oral doses of salbutamol on repeated sprint ability in healthy well-trained men and women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kasper Eibye (København N, Denmark), Kasper Bengtsen, Søren Jessen, Vibeke Backer, Glenn Jacobson, Morten Hostrup</td>
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<thead>
<tr>
<th>PA2440</th>
<th>Influence of an ultraendurance event on lung health</th>
</tr>
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<tbody>
<tr>
<td>Courtney M. Wheatley (Scottsdale, United States of America), Glenn Stewart, Caitlin Fermoye, Briana Ziegler, Bruce Johnson</td>
<td></td>
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</tbody>
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<thead>
<tr>
<th>PA2441</th>
<th>Influence of ultra-endurance exercise on alveolar-capillary recruitment and lung diffusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glenn Stewart (Rochester, United States of America), Caitlin Fermoye, Courtney Wheatley, Briana Ziegler, Bruce Johnson</td>
<td></td>
</tr>
</tbody>
</table>

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<tr>
<th>PA2442</th>
<th>Prevalence of Late-Onset Pompe Disease in Portuguese Patients with Diaphragmatic Paralysis: The DIPPER Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maria José Araújo Cunha Guimarães (Palmeira – Stº Tirso, Portugal), João Winck, Bêbiana Conde, Alexandra Mineiro, Margarida Raposo, Joaquim Moita</td>
<td></td>
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</tbody>
</table>

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<thead>
<tr>
<th>PA2443</th>
<th>Comparison of mobility, shortening velocity and diaphragmatic thickness between pre-term and term infant: a pilot study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniella Brandao (Recife (PE), Brazil), Fernanda Silva, Helga De Souza, Rayane Nunes, Paulo Magalhaes, Leticia Melo, Armélia Dornelas De Andrade, Cyda Reinaux</td>
<td></td>
</tr>
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<thead>
<tr>
<th>PA2444</th>
<th>Lung synchrony in different body positions in unilateral diaphragm paralysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mayra Caleffi Pereira (Campinas, Brazil), Vinicius Iamonti, Jeferson Ferreira, Natália Lima, Flavia Badaro, Pedro Caruso, Carlos Carvalho, André Albuquerque</td>
<td></td>
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<tr>
<th>PA2445</th>
<th>The effect of the abdominal wall mobility on the respiratory function in young healthy subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monize Karla Alves Aquino (São Paulo, Brazil), Caroline Gomes Mól, Catherine Cely Oliveira, Renato Batista Reis, Clarice Tanaka</td>
<td></td>
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<thead>
<tr>
<th>PA2446</th>
<th>Diaphragm in the role of esophageal sphincter and possibilities of treatment of esophageal reflux disease using physiotherapeutic procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petr Bitnar (Kladno, Czech Republic), Štěpán Hlava, Jan Štoviček, Alena Kubesová</td>
<td></td>
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<tr>
<th>PA2447</th>
<th>Thermodynamic analysis of human respiratory (diaphragm) skeletal muscles</th>
</tr>
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<tr>
<td>Jale Çatak (İstanbul, Turkey), Mustafa Ozligen, Bayram Yılmaz</td>
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**TP-09**

**Session 270**

**12:50 - 14:40**

**Thematic poster: Cardiopulmonary exercise testing in COPD and cardiovascular diseases**

**Disease(s):** Respiratory critical care, Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases

**Method(s):** Public health, General respiratory patient care, Physiology

**Chairs:** Sébastien Baillieul (GRENOBLE CEDEX 9, France), Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Zafeiris Louvaris (Leuven, Belgium), Alain Varray (Montpellier, France)

**Exercise tolerance and balance of inspiratory–expiratory muscle strength in relation to breathing timing in chronic obstructive pulmonary disease**

Keisuke Miki (Toyonaka, Japan), Kazuyuki Tsuji, Ryuya Edahiro, Seigo Kitada, Mari Miki, Kenji Yoshimura, Hiroyuki Kagawa, Yohei Oshitani, Yuko Ohara, Yuki Hosono, Hiroyuki Kurebe, Ryoji Makura

**Endothelial microparticles as markers of exercise capacity in chronic obstructive pulmonary disease (COPD)**

Dario Nieri (Pisa (PI), Italy), Marta Daniele, Tommaso Neri, Maria Adelaida Roggi, Sabrina Santerini, Barbara Vagaggini, Carmela Morizzo, Carlo Palombo, Pierluigi Paggiaro, Alessandro Celi

**Physiological and perceptual responses to exercise according to the locus of symptom limitation in patients with COPD**

Lauren Tracey (Montreal, Canada), Dennis Jensen

**Correlation of a modified shuttle walk with six-minute walk test in COPD patients**

Rishi Gopalakrishnan (Thrissur (Kerala), India), Rupak Singla

**Oxygen desaturation-resaturation and heart rate change patterns during 6-min walk test in patients with mild to severe interstitial pneumonia**

Takeshi Inagaki (Chiba, Japan), Jiro Terada, Musuzu Yabana, Naoko Kawata, Mitsuhiro Abe, Kenji Tsushima, Koichiro Tatsumi
The disease phenotype affects exercise capacity in COPD
Rocco Francesco Rinaldo (Milano (MI), Italy), Beatrice Vigo, Sofia Comandini, Alessandra Masseroni, Stefano Centanni, Fabiano Di Marco

Any role for cardiopulmonary exercise test in symptomatic smokers with borderline spirometry?
Rocco Francesco Rinaldo (Milano (MI), Italy), Pierfrancesco Longo, Fulvia Ribolla, Silvia Ruggeri, Job Sara, Stefano Centanni, Fabiano Di Marco

Exercise performance in lowlanders with COPD travelling to 2048m
Tobias Kuehne (St. Gallen, Switzerland), Michael Furian, Tsogyal D Latshang, Sayaka S Aeschbacher, Fabienne Huber, Deborah Flueck, Elisabeth Domenica Hasler, Stefanie Ulrich, Philipp M Scheiwiler, Silvia Ulrich, Konrad Ernst Bloch

COPD-Left ventricular diastolic dysfunction overlap and ventilatory inefficiency
Tiago Rodrigues De Lemos Augusto (Campo Grande, Brazil), Karina Utida, Paulo Muller, Ana Cristina Wanderley Xavier

To study the validity, reliability and acceptability of an audio signal modified shuttle walk test in COPD patients
Abhishek Faye (Bhandara (Maharashtra), India), Rupak Singla, Richa Rai, Anil Jain, Ranadip Chowdhury, Vikas Kumar, Shweta Anand

Exercise related desaturation in patients with COPD is a reproducible phenomenon and important phenotypic marker
Roman Kalinov (Krumovo, Bulgaria), Blagoi Marinov, Dimitrina Stoianova, Nonka Mateva, Vladimir Hodgev, Stefan Kostianev

Exercise related desaturation (6MWT) in patients with COPD – Is it predictable?
Roman Kalinov (Krumovo, Bulgaria), Blagoi Marinov, Dimitrina Stoianova, Nonka Mateva, Vladimir Hodgev, Stefan Kostianev

Dymanic hyperinflation: can it be the key mecanism for exercise intolerance?
Ana Lutas (Lisboa, Portugal), Susana Clemente, Andreais Isidoro, Sara Dordio, Teresa Pequito, Marco Pereira, Sofia Furtado

Quality of life and exercise intolerance in overlapping COPD-heart failure
A.S. Soares (Sao Paulo, Brazil), R. Lima, F.F. Arbex, M.C. Alencar, M.F. Oliveira, W.M. Medeiros, L.E. Nery, J.A. Neder, Priscila Sperandio

The association between lung function and peak oxygen uptake in coronary artery disease
Øystein Rasch-Halvorsen (Trondheim, Norway), Erlend Hassel, Ben M Brumpton, Haldor Jenssen, Martijn A Spruit, Arnulf Langhammer, Sigurd Steinshamn

Incremental step test in patients with pulmonary hypertension
Elaine Vieira (Sao Caetano do Sul (SP), Brazil), Roberta Ramos, Ivan Ivanaga, João Rolim, Angelo Fonseca, José Rodrigues Júniior, Eloara Ferreira, Simone Dal Corso, Luiz Eduardo Nery, Jaquelina Ota-Araúkaki, Camila Loureiro

Clinical value of an abnormal increase of O2 pulse during early recovery from maximal exercise in patients with chronic thromboembolic pulmonary hypertension
Camila Melo Coelho Loureiro (Salvador (BA), Brazil), Jaqueline Souza Ota-Araúkaki, Andrei Augusto Assis De Campos Cordeiro, Eloara V M Ferreira, Angelo Xerez Cepeda, Rudolf K F Oliveira, Carolina Montemór Soares Messina, Elaine Brito Vieira, Luiz Eduardo Nery, Roberta Pulcheri Ramos

Voluntary exercise increases survival and exercise capacity in a monocrotaline-induced pulmonary hypertension in rats
Gouveia Silva Matheus Marcus (, Brazil), Monica Irani Gouveia, Matheus Marcus Gouveia Silva, Leoncio Lopes Soares, Filipe Rios Drummond, Meileni Ribeiro Fidelis, Alexandre Jayme Lopes Dantas Costa, Leonardo Mateus Teixeira Rezende, Anselmo Gomes De Moura, Antonio José Natali

Expiratory stenosis breathing – a novel model of dynamic hyperinflation
Matthias Urban (Wien, Austria), Anna Katharina Mayr, Ingrid Schmidt, Otto Chris Burghuber, Georg-Christian Funk

Characteristics associated with physical activity in non-severe chronic obstructive pulmonary disease

### Thematic poster: New methods and concepts in exercise testing

**Disease(s):**
- Interstitial lung diseases
- Airway diseases
- Respiratory infections
- Sleep and breathing disorders
- Pulmonary vascular diseases
- Respiratory critical care
- Respiratory infections

**Method(s):**
- Imaging
- Public health
- Epidemiology
- General respiratory patient care
- Respiratory intensive care
- Physiology
**PA2468** Late Breaking Abstract - Regional lung heterogeneity during mechanical ventilation and gene expression in endotoxemia
Seiha Yen (Hobart (TAS), Australia), Melissa Preissner, Ellen Bennett, Stephen Dubsky, Andreas Fouras, Peter Dargaville, Graeme Zosky

**PA2469** Late Breaking Abstract - The effectiveness of electrical impedance spirometry in heart insufficiency diagnostics in COPD patients
Vitaly Mishlanov (Perm, Russian Federation), Andrew Zuev, Ekaterina Koshurnikova

**PA2470** Late Breaking Abstract - Conversion of FENO: from different flows to the standard flow.
Paul Lassmann-Klee (Helsinki, Finland), Lauri Lehtimäki, Tuula Lindholm, Pekka Malmberg, Anssi Sovijärvi, Päivi Piirilä

**PA2471** 6-minute walk test with headphones
Rita Boaventura (Porto, Portugal), Leonor Almeida, Francisco Machado, Ermelinda Moreira, Pedro Amorim, Ana Pimentel, Joana Chaves Pipa, Andreia Neves, Patricia Teles, Natália Martins, Marta Drummond

**PA2472** Sensitivity and specificity of Wasserman’s cardio-pulmonary exercise test protocol in comparison with physician diagnosis after three-month followup
Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Hamidreza Abtahi, Samira Kaffan, Shirin Izadi, Besharat Rahimi, Shahrokh Izadi

**PA2473** Cardiopulmonary exercise testing (CPET) patient survey
Jeanette Boyd (Sheffield (South Yorkshire), United Kingdom), Pippa Powell, Ioannis Vogiatzis, Dimitris Kontopidis, Helge Hebestreit

**PA2474** Flattening of pulse oxygen during cardiopulmonary exercise testing (CPET) and associated factors in non-cardiopathic adults: cross-sectional results from the EPIMOV study
Víctor Dourado (Santos (SP), Brazil), Vítor Almeida, Flavio Almeida, Evandro Sperandio, Marcello Romiti, Antonio Gagliardi, Rodolfo Arantes

**PA2475** Reference equation for the six-minute walk distance of healthy Nigerian school-aged children
Peter Odion Ubuane (Lagos, Nigeria), Barakat Adeola Animasahun, Olufunke A Ajiboye, Olugbemiga Mogbafulo Kayode-Awe, Ayodeji Olusola Akinola, Omotola Adeleye Ajayi, Gbenga Folarin Akinynosoye, Chidimma Imma Ohagwu, Fidelis Osisameduwa Njokanma

**PA2476** Cross-site external biological control (BioQC) in cardiopulmonary exercise testing (CPET) equipment.
Courtney Dos Santos (London, United Kingdom)

**PA2477** Effects of intravenous iron on hypoxic pulmonary vasoconstriction and maximal exercise capacity during sustained (8 h) hypoxia in healthy adults.
Nick Talbot (Oxford (Oxfordshire), United Kingdom), Hung-Yuan Cheng, Thomas Smith, Keith Dorrington, Peter Robbins

**PA2478** Establishing normal laryngeal resistance measurements for the Continuous Laryngoscopy Exercise (CLE)-Test.
Zoe Fretheim-Kelly (Oslo, Norway), Ola Røksund, John-Helge Heimdal, Hege Clemm, Marie Vollseter, Thomas Halvorsen

**PA2479** Exercise fear-avoidance beliefs and self-reported physical activity in young adults with asthma and healthy controls
Thomas Janssens (Leuven, Belgium), Lieven Dupont, Andreas Von Leupoldt

**PA2480** Value of cardiopulmonary exercise testing in interstitial lung diseases
Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Rebeca Natal, João Costa, Andrea Filipa Carriço, Ana Filipa Fernandes, Luís Vaz Rodrigues

**PA2481** Evaluation of exercise capacity and mechanisms of limitation during cardiopulmonary exercise testing (CPET) in patients with chronic hypersensitivity pneumonitis
Olivia Meira Dias (São Paulo (SP), Brazil), Bruno Baldi, Jeferson Pereira, Leticia Cadenas, Francesca Pennati, Caterina Salito, Carlos Carvalho, Andrea Aliverti, André Albuquerque

**PA2482** The relationship between measured and estimated oxygen uptake in patients with pulmonary tuberculosis
Mikhail Chushkin (Moscow, Russian Federation), Natalia Karpina, Lydia Popova, Oleg Ots, Olga Nenasheva, Petr Struchkov

**PA2483** Evaluation of the sub-maximal aerobic capacity of patients with rheumatoid arthritis (RA): preliminary data
Helmi Ben Saad (Sousse, Tunisia), Safaa Belghali, Sadoak Lataoui, Fatma Gueguez, Khadija Baccouche, Raja Elamri, HéLa Zeglaoui, Elyes Bouajina
PA2484 
**Borg dyspnea scale and 6 Minute Walk Test could be useful tools for assessing respiratory involvement in systemic lupus erythematosus**
Mariana Cebanu (Chisinau, Republic of Moldova), Victoria Sadovici-Bobeica, Virginia Salaru, Maria Garabajiu, Gheorghe Ciobanu

PA2485 
**Is it possible to perform cardiopulmonary exercise test in laryngectomized patients?**
Danielle Cristine Campos Bedin (São Paulo (SP), Brazil), Roberta Pulcheri Ramos, Elaine Brito Vieira, Sonia Maria Faresin, Luiz Eduarado Nery

PA2486 
**Impact of diastolic dysfunction on exercise capacity in patients with liver cirrhosis**
Teresa Sassmann (Graz, Austria), Gabor Kovacs, Rudolf Stauber, Fabio Revelant, Vasile Foris, Susanne Pfeiffer, Fabian Gruber, Vanessa Stadlbauer, Daniela Kniepeiss, Gernot Zollner, Peter Fickert, Alexander Avian, Andrea Olschewski, Horst Olschewski, Philipp Dousschen

PA2487 
**The impact of dyspnea catastrophizing on the neural processing of respiratory sensations in patients with COPD.**
Thomas Reijnders (Heverlee, Belgium), Thierry Troosters, Wim Janssens, Rik Gösselink, Daniel Langer, Paul Davenport, Andreas Von Leupoldt

**TP-11  Session 272  12:50 - 14:40**

Thematic poster: From continuous positive airway pressure (CPAP) and adherence to CPAP to asthma-COPD overlap syndrome (ACOS)

**Disease(s):** Sleep and breathing disorders  Airway diseases

**Method(s):** Imaging  Public health  Respiratory intensive care  Physiology  General respiratory patient care

**Chairs:** Walter McNicholas (Dublin, Ireland), Stefan-Marian Frent (Arad, Romania), Andreja Sajnic (Zagreb, Croatia), Johan Verbraecken (Edegem (Antwerp), Belgium)

PA2488 
**Influence of anxious depressive disorder in the treatment of Sleep Apnea Hypopnea Syndrome**
Virginia Almadana Pacheco (Sevilla, Spain), SINDY CEDEÑO DE JESÚS, Jesús Sánchez Gómez, Agustín Valido Morales, Jose Maria Benitez Moya

PA2489 
**MARITAL QUALITY, PARTNERS ENGAGEMENT AND CONTINOUS POSITIVE AIRWAY PRESSURE ADHERENCE IN OBSTRUCTIVE SLEEP APNEA**
Thibaut Gentina (Marcq-En-Baroeul, France), Sebastien Bailly, Francois Jounieaux, Francois Codron, Catherine Lamblin, Christophe Verkendre, Pierre Marie Broussier, Dominique Guffroy, Arnaud Prigent, Jean Jacques Gres, Laurent Kedziora, Jamal Kabbani, Bernard Douay, Renaud Tamisier, Elodie Gentina, Jean Louis Pepin

PA2490 
**Erratic adherence to continuous positive airway pressure for obstructive sleep apnea**
Daniel López-Padilla (Madrid, Spain), Milagros Llanos Flores, Virginia Gallo González, Zichen Ji, José Terán Tinedo, Elena R. Jimeno, Soledad López Martin, Elena Ojeda Castillo, Luis Puente Maestu

PA2491 
**Assessing an auto set trial period for obstructive sleep apnoea patients**
Joe Topham (Nottingham (Nottinghamshire), United Kingdom), Laura Watson, Linda Johnson, Peter Smith

PA2492 
**Mild OSAS: Is CPAP therapy actually required for these patients?**
Sameer Bansal (Navi Mumbai (Maharashtra), India), Ketaki Utpat, Unnati Desai, Jyotsna Joshi

PA2493 
**Prevalence of co-morbidities and clinical features in patients with obstructive sleep apnea and chronic obstructive pulmonary disease.**
Lucia Spicuzza (Sant'Agata Li Battiati (CT), Italy), Emilio Frasca, Giacomo Doria, Giulia Cacopardo, Claudia Crimi, Raffaele Campisi, Nunzio Crimi, Giuseppe Di Maria

PA2494 
**Prevalence of overlap of COPD and OSAS in a Pulmonary Rehabilitation Centre**
Annia Fleur Schreiber (Torino (TO), Italy), Francesca Cemmi, Cinzia Lastoria, Piero Ceriana, Antonella Balestrino, Annalisa Carlucci

PA2495 
**Asthma and Obstructive Sleep Apnea Syndrome (OSAS)**
Feryel Chaouki (Batna, Algeria), Abdelmajid Djebar

PA2496 
**Overlap syndrome "asthma and obstructive sleep apnea" in obese patients**
Ferdous Yangui (Tunis, Tunisia), Sara Ammari, Haıma Mrassi, Imen Kharrat, Maher Abouda, Mohamed Ridha Charfi

PA2497 
**Prevalence of obstructive sleep apnea in asthmatic school-aged children**
Hanaa Shafieek (Alexandria, Egypt), Noha Fawzy, Mahmoud Ibrahim Mahmoud

PA2498 
**OSA phenotypes in asthma and COPD**
Anshu Priya (New Delhi (Delhi), India), Nitin Goel, Raj Kumar
PA2499 One airway one disease from a different perspective – eyes cant see what the mind doesn’t know
Firoz A Hakkim (Trivandrum (Kerala), India), Rajesh V, Giridhar B.H, Nandhakisore Baikunje

PA2500 IMPACT OF COMORBIDITY ON SLEEP QUALITY IN COPD PATIENTS EVALUATED WITH THE PITTSBURGH SLEEP QUALITY INDEX (PSQI)
Julia Sampol Sirvent (Barcelona, Spain), Patricia Lloberes Canadell, Odile Romero Santo Tomás, Beatriz Valeiro González, Marc Miravitlles Fernández, Gabriel Sampol Rubio, Jaume Ferrer Sancho

PA2501 Is OSA an important risk factor for metabolic dysregulation in obese COPD patients
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Flavio Danilo Pissulin, Ricardo Beneti, Francis Lopes Pacagnelli

PA2502 Assessment of 10-year cardiovascular risk in patients with overlap syndrome
Athanasios Voulgaris (Alexandroupolis, Greece), Kostas Archontogeorgis, Evangelia Nena, Maria Xanthoudaki, Paschalis Ntolios, Toulin Mouemin, Konstantina Chadia, Nikoletta Paxinou, Konstantinos Kalsas, Marios Froudarakis, Paschalis Steiropoulos

PA2503 Mean platelet volume and platelet distribution width in patients with obstructive sleep apnea syndrome and chronic obstructive pulmonary disease (overlap syndrome)
Athanasios Voulgaris (Alexandroupolis, Greece), Kostas Archontogeorgis, Evangelia Nena, Maria Xanthoudaki, Paschalis Ntolios, Maria Kouratzi, Stavros Anevlas, Marios Froudarakis, Paschalis Steiropoulos

PA2504 Retinal vascular tortuosity in patients with obstructive sleep apnea-chronic obstructive pulmonary disease overlap syndrome
Maha Youssif (Menoufia Governorate, Egypt), Rabab El Wahsh, Asmaa Ibrahim

PA2505 Role of intermittent or continuous hypoxia in systemic inflammation measured by echography
Carmen Maria Acosta Gutierrez (Madrid , Spain), Pedro Landete Rodriguez, Beatriz Aldave Orzaiz, Marta Hernandez Olivo, Maria Gonzalez Gonzalez, Ana Sanchez Azofra , Aguenda Gonzalez Rodriguez, Enrique Zamora Garcia, Jose Manuel Muñoz Olmedo, Alfonso Friera Reyes, Joan B Soriaño, Carmelo Garcia Monzon, Julio Ancochea Bermudez

PA2506 Case series: efficacy and usefulness of double bronchodilation in patients with Overlap syndrome (OSAS and COPD).
Albino Petrone (Cosenza (CS), Italy), Filippo Luca Fimognari, Michela Quartieri, Flaminio Mormile, Leonello Fusco, Ludovico Petrone, Francesco Romano

TP-12 Session 273 12:50 - 14:40
Thematic poster: Diagnostics including questionnaires

Disease(s): Sleep and breathing disorders

Method(s): Surgery Epidemiology Physiology General respiratory patient care Public health

Chairs: Renata L. Riha (Edinburgh (Edinburgh), United Kingdom), Simon Dominik Herkenrath (Köln, Germany), Sophia E. Schiza (Heraklion, Greece), Ingo Fietze (Berlin, Germany)

PA2507 ONE SIZE DOES NOT FIT ALL: SCREENING SCORES AND POLYSOMNOGRAPHY PROFILES OF TWO ETHNICALLY VARIED POPULATIONS
Ravi Chandra Malapaka (Bangalore (Karnataka), India), Murali Mohan, Archita Joshi Bhatt, Deepesh Vaidya, V M Annappandian

Correlation between diurnal symptoms (Excessive Daytime Sleepiness) and nocturnal symptoms (Nocturia) in patients with Obstructive Sleep Apnoea
Teresa Diaz De Teran Lopez (Santander, Spain), Kimberley Lee, Sandra Tello Mena, Fabiola Escobar Ramirez, Marta Cabello Najera, Carlos Queipo Corona, Marian Martinez Martinez, Maria Martin Garcia, Olga Cantalejo Martin, Felix De Carlos Villafraanca, Emilio Macias Escalada, Pedro Muñoz Cacho, Monica Gonzalez Martinez

Respiratory events during stable wake in sleep apnea patients: occurrence and mechanism.
Pierre J. Escourrou (Clamart CEDEX, France), Marie Brandewinder, Christian Berthomier, Pierre Berthomier, Guillaume Baffet, Zouheir Balekji, Nathalie Puisais, Gabriel Roisman

Multifactorial determinants of sleepiness and missing accident at wheel in OSA patients
Francesco Fanfulla (Pavia (PV), Italy), Elisa Marrone, Irene Rist, Nadia D'Artavilla Lupo, Aleksandar Prpa, Rossella Trentin, Caterina Pronzato

Self Reported Sleepiness At The Wheel Versus Apnea Hypopnea Index To Predict Sleep Related Accidental Risk Of Patients Suspected Obstructive Sleep Apnea Syndrome
Pierre Philip (Bordeaux Cedex, France), Sebastien Bailly, Meriem Benmerad, Jean-Arthur Micoulaud-Franchi, Yves Grillet, Marc Sapene, Renaud Tamisier, Jean-Louis Pepin

Recognizing patients with sleepapnoea in primary care; a major challenge
Elske Luiten (Enschede, Netherlands), Bart Dikkeboer, Marjolein Brusse-Keizer, Michiel Eijsvogel
Comparison of three clinical screening questionnaires for Sleep Apnea Syndrome (SAS) in Primary Care (PC)
Patricia Peñacoba (Barcelona, Spain), Mª Antonia Llauger, Rosa Mª Miralda, Leandra Dominguez, Ana Mª Fortuna, Anna Mª Pedro, Pepi Valverde, Jose Ignacio Aoziz, Joan Bayó, Núria Argemí, Casimira Medrano, Marineus Puig, Joan Juvanteny,Montserrat Reverté, Xavier Flor, Mª Angeles Santos, Mª Del Mar Fraga, Carme Santiveri, Gabriel Sampol, Patricia Lloberes, Núria Grau, Vicente Plaza, Mercè Mayos

Comparison of three questionnaires for screening obstructive sleep apnea syndrome
Hana BLIBECH (Tunis, Tunisia), Ferdaous Yangui, Imen Kharrat, Hana Mrassi, Maher Abouda, Mohamed Ridha Charfi

Sleep screening questionnaires in patients with type 2 diabetes.
Athanasia Pataka (Thessaloniki, Greece), Seraphim Kotoulas, George Kalamaras, Evangelia Panagiotidou, Vaggelis Chatziopoulos, Katalin Fekete, Paraskevi Argyropoulou

Comparison of different questionnaires to identify risk for obstructive sleep apnea in Indian population
Mani Tiwari (Allahabad (Uttar Pradesh), India), Raj Kumar

Comparison of different questionnaires for screening obstructive sleep apnea syndrome
Patricia Peñacoba (Barcelona, Spain), Mª Antonia Llauger, Rosa Mª Miralda, Leandra Dominguez, Ana Mª Fortuna, Anna Mª Pedro, Pepi Valverde, Jose Ignacio Aoziz, Joan Bayó, Núria Argemí, Casimira Medrano, Marineus Puig, Joan Juvanteny, Montserrat Reverté, Xavier Flor, Mª Angeles Santos, Mª Del Mar Fraga, Carme Santiveri, Gabriel Sampol, Patricia Lloberes, Núria Grau, Vicente Plaza, Mercè Mayos

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PA2528 Late Breaking Abstract - How to Provide Optimal Depth of Sedation for DISE: Simultanious Monitorization of EEG and BIS
Mehmet Ali Babademez (Ankara, Turkey), Gökhan Yalçıner, Mustafa Aksoy, Saliha Kuşoğlu Atalay, Kemal Caner Deloğlu, Ayça Tuba Dumanlı Özcan, Hayati Kale

PA2529 Late Breaking Abstract - Pilot study for a new diagnostic supply process for patients with sleep related breathing disorders
Katharina Lederer (Berlin, Germany), Sandra Zimmermann, Maria Haustein, Vivienne Gourdon, Bodo Weller, Martin Glos, Maria Maass, Ingo Fietze, Thomas Penzel

PA2530 Interleukin-10 affects the control of breathing.
Charoula Eleni Giannakopoulou (Athens, Greece), Adamantia Sotiriou, Maria Dettoraki, Michael Yang, Fotis Perlikos, Dimitrios Toumpansakis, Georgios Prezerakos, Ioannis Koussourelakis, Georgios Kastis, Vyronia Vassilakopoulou, Eleftheria Mizi, John J Greer, Theodoros Vassilakopoulou

PA2531 Chronic Intermittent Hypoxia effects are not mediated by guinea pig carotid body sensitization
Angela Gomez-Niño (Valladolid, Spain), Inmaculada Docio, Elena Olea, Jesus Prieto-Lloret, Ana Obeso, Asuncion Rocher

PA2532 The role of inflammatory biomarkers in obstructive sleep apnea syndrome
Süreyya Yılmaz (Diyarbakir, Turkey), Hadice Selimoglu Sen, Mahsuk Taylan, Melike Demir, Fusun Topcu, Abdurrahman Senyigit, Gokhan Kirbas

PA2533 Oxidative stress in obstructive sleep apnea: Value of fractional exhaled nitric oxide measurement
Samira Aouadi (Ariana, Tunisia), Selma Mkaddem, Khadija Ayed, Imen Sahnoun, Sonia Maalej, Saloua Jameleddine, Leila Douik-Elgharbi

PA2534 Exhaled Breath Analysis for the Diagnosis of Obstructive Sleep Apnea
Timon M. Fabius (Enschede, Netherlands), Rianne De Vries, Marjolein Brusse-Keizer, Michiel M. M. Eijsvogel, Frans H. C. De Jongh

PA2535 Urinary biomarkers for obstructive sleep apnea syndrome: Lipocalin type prostaglandin-D synthase and F2-isoprostane
Murat Türk (Soest, Netherlands), Oguz Kötü, Zeynep İşkdoğan, Canan Demirtaş

PA2536 The role of P-selectin glycoprotein ligand-1 (PSGL-1) in the pathogenesis of obstructive sleep apnea
Péter Horváth (Budapest, Hungary), Zsófia Lázár, Martina Mészáros, Gabriella Gálffy, Rita Puskás, György Lo scornczy, László Kunos, András Bíkov

PA2537 Peripheral blood lymphocyte repertoire in non-obese patients with Obstructive Sleep Apnea.
Agata Ramiszewska (Warszawa, Poland), Malgorzata Barnas, Piotr Bielicki, Iwona Kwiecien, Tomasz Skirecki, Aneta Wernicka, Maciej Wyzgal, Joanna Domagala-Kulak

PA2538 The frequency of monosite chemoatratant protein-1 gen polymorphism in obstructive sleep apnea syndrome
Buğra Kerget (Erzurum, Turkey), Ömer Araz, Elif Yılmazel Ucar, Metin Akgun

PA2539 Apolipoprotein E polymorphisms and incident arterial hypertension in obstructive sleep apnea patients A prospective cohort study
Ana Cerezo Hernández (Valladolid, Spain), Tomás Ruiz Albi, María Jesús Alonso Ramos, Andrea Crespo Sedano, Daniel Alvarez González, Julio Fernández De Frutos Arribas, Carmen Ainhoa Arroyo Domingo, Félix Del Campo Matías

PA2540 The effect of chronic-intermittent-hypoxia on 5-HT1A receptors and GIRK-2 in dorsal raphe nucleus of rats
Ying Zou (Shenyang, China), Wei Wang, Wenyang Li, Hongyu Jin

PA2541 Study of cognitive impairment in subjects with obstructive sleep apnoea using Addenbrooke's Cognitive examination(ACE-R)
Uma Maheswari Krishnaswamy (Bangalore (Karnataka), India), Priya Ramachandran, Kimberly D’Souza, Uma Devaraj

PA2542 Efficacy and safety of single-use suvorexant for insomnia during in-laboratory polysomnography in patients with obstructive sleep apnea: A feasibility study
Takuma Matsumura (Chiba, Japan), Jiro Terada, Taku Kinoshita, Yoriko Sakurai, Misuzu Yahaba, Seiichiro Sakao, Chikara Yoshimura, Koichiro Tatsumi

PA2543 Periodic Leg Movements are Associated With Cardiovascular Disease and Severity of Obstructive Sleep Apnea Syndrome
Halil Ibrahim Yakar (Istanbul, Turkey), Sebahat Alsır Ecder, Erkan Ceylan, Asiyeh Kanbay

PA2544 Effect of nighttime earplugs and eye mask on sleep quality in medical intensive care unit patients
Pureepat Arttawejkul (Bangkok, Thailand), Naricha Chirakalwasan
Sleep quality, under-recognition and underreporting of sleep disturbance among HIV patients attending tertiary hospital in Ilorin, Nigeria
Adeniyi Olatunji Aladesanmi (ilorn, Nigeria), Olufemi Desalu, Adeniyi Aladesammi, Olutobi Ojuawo, Christopher Opeyemi, Obianuju Ozoh, John Olaririnoye, Taofeek Oloyede, Emmanuel Sanya, Alakija Salami

TP-14  Session 275  12:50 - 14:40

Thematic poster: Obesity: comorbidities
Disease(s): Sleep and breathing disorders Airway diseases
Method(s): Public health Respiratory intensive care Epidemiology General respiratory patient care Physiology
Chairs: Thomas Brack (Glarus, Switzerland), Alanna Hare (London, United Kingdom), Peter Coss (Dublin 8, Ireland), Oana Claudia Deleanu (Bucuresti, Romania)

PA2546 Late Breaking Abstract - Obstructive Sleep Apnoea in an Irish Bariatric Population
Imran Johan Meurling (Dublin 4, Ireland), Emer O’ Malley, Colin Dunlevy, Donal O’ Shea, John F. Garvey

PA2547 The results of OSAS patients in our clinic
Süreyya Yılmaz (Diyarbakir, Turkey), Haidec Selimoglu Sen, Mahsuk Taylan, Melike Demir, Gokhan Kirbas

PA2548 Elevated levels of BMI positively correlate with increased cardiovascular risk in patients with Obstructive Sleep Apnea.
Pierluigi Carratù (Bari (BA), Italy), Gaia Corvasce, Silvano Dragonieri, Lorenzo Marra, Giorgio Castellana, Teresa Ranieri, Onofrio Resta

PA2549 Ericksonian coaching for weight management in patients with OSA: A pilot study
Pavol Joppa (Košice, Slovakia), Ruzena Tkacova, Ivana Parancicova, Eva Timkova, Dagmar Vónkova

PA2550 The issue of weight management in sleep apnea patients
Andrius Komarovec (Vilnius, Lithuania), Rasa Gauronksaitė, Irina Liustrickyte, Vaiva Kumpauskaite, Dalia Balciene, Rolandas Zablockis, Edvardas Danila, Agne Krzivickytė, Justina Kucinskaite

PA2551 Predictive factors of residual events after weight loss in Obstructive Sleep Apnea Syndrome.
Astrid Messeray (Woluwe-St-Lambert, Belgium), Daniel Rodenstein, Gimbaa Benny Mwenge

PA2552 Diagnosis, follow-up and management of sleep disordered breathing in children with Osteogenesis Imperfecta
Jessica Taytard (Paris Cedex 12, France), Antoine Leotard, Marion Aouate, Michèle Boule, Véronique Forin, Pauline Lallemant-Dudek

PA2553 Assesment for Sleep in Myotonic Dystrophy type 1(MD-1) patients
Sandra Pedroso Tejada (Santurtzi (Vizcaya), Spain), Borja Ortíz De Urbina Antia, Idoia Salinas Garrido, Beatriz Gonzalez Quero, Sonia Castro Quintas, Amaia Urrutia Gajate, Lorea Martínez Indart, Valentin Cabrera Núñez, Pilar Marin Fernandez

PA2554 High obstructive sleep apnea risk in patients with type A aortic dissection
Xi Xin (Beijing, China), Wei Yongxiang, Sun Lihong, Han Fang

PA2555 Body imagen, sexual function and dysfunction in men with obstructive sleep apnea syndrome
Grzegorz Brozek (Katowice, Poland), Krzysztof Nowosielski, Szymon Skoczyński, Klaudia Glinka, Karolina Ficek, Aleksandra Oraczewska, Beata Kotulinska, Sylwia Waz, Adam Barczyk

PA2556 Is there a link between OSA and erectile dysfunction?
Paola Gudiol Arriaza (Leon, Spain), Amparo Sánchez Serrano, Jose Luis Fernandez Sánchez

PA2557 Chronic cough in patients with obstructive sleep apnea.
Aleksandra Rybka (Warszawa, Poland), Magdalena Wasik, Elżbieta Grabczak, Marta Dąbrowska, Piotr Bielicki, Rafał Krenke

PA2558 Prevalence of Obstructive Sleep Apnea in Idiopathic Pulmonary fibrosis
Subho Sarkar (North 24 Parganas (West Bengal), India), Chainaram Choudhary, Gopal Purohit

PA2559 Association Between Swallow-Associated Respiratory Arousal and Nocturnal Gastroesophageal Reflux Occurrence in Patients with Coexisting Obstructive Sleep Apnea and Gastroesophageal Reflux Disease
Nattawat Jantarangsi (Bangkok, Thailand), Nattapon Jaimchariyatam, Sutep Gonlachanvit, Tayard Desudchit

PA2560 Snoring and nocturnal gastroesophageal reflux in the ECRHS III: Association to lung function and respiratory symptoms
Össur Ingi Emilsson (Uppsala, Sweden), Shadi Amid Hägg, Deborah Jarvis, Judith Garcia-Aymerich, Thorarinn Gislason, Christer Janson, On Behalf Of The Ecrhs Sleep Working Group
<table>
<thead>
<tr>
<th>Slab No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2561</td>
<td>Does intraocular pressure change in response to CPAP applied in wakefulness?</td>
<td>Dariusz Wozniak (St Ives (Cornwall), United Kingdom), Matthew Schneiders, Rupert Bourne, Ian Smith</td>
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<td>PA2562</td>
<td>Obstructive Sleep Apnea in patients with Primary-Open Angle Glaucoma: prevalence and associations.</td>
<td>Dariusz Wozniak (St Ives (Cornwall), United Kingdom), Rupert Bourne, Gil Peretz, Jane Kean, Catherine Willshire, Shabbir Harun, Sofia Villar, Yi-Da Chiu, Ian Smith</td>
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<td>PA2563</td>
<td>28-day post-operative complications in elective bariatric patients with obstructive sleep apnoea</td>
<td>Peter Siu Pan Cho (London, United Kingdom), Paola Eiben, Joseph Patrick Hetherington, Kai K Lee</td>
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<td>PA2564</td>
<td>Venous vs arterial blood gases in the assessment of sleep disordered breathing in an Irish bariatic population</td>
<td>Imran Johan Meurling (Dublin 4, Ireland), Donal O’Shea, John Garvey</td>
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<td>PA2565</td>
<td>Can serum bicarbonate be used to screen for sleep disordered breathing (SDB) in obese patients?</td>
<td>Giulia Spoletini (Leeds (West Yorkshire), United Kingdom), Julian Barth, Daniel Peckham, Dipansu Ghosh, Mark Elliott</td>
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**TP-15 Session 276 12:50 - 14:40**

**Thematic poster: Pleural effusions, infections and tumours**

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<tr>
<th>Disease(s) :</th>
<th>Thoracic oncology</th>
<th>Respiratory critical care</th>
<th>Airway diseases</th>
<th>Respiratory infections</th>
<th>Interstitial lung diseases</th>
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<tr>
<th>Method(s) :</th>
<th>Imaging</th>
<th>Respiratory intensive care</th>
<th>Endoscopy and interventional pulmonology</th>
<th>Surgery</th>
</tr>
</thead>
</table>

| Chairs : | Kalliopi Athanassiadi (Athens, Greece), Luca Bertolaccini (Bologna (BO), Italy), Marcello Migliore (Catania (CT), Italy), Serdar Evman (Istanbul, Turkey) |

| PA2566 | The use of untunneled indwelling pleural catheters for non-malignant pleural effusions in the outpatient | André Miotto (São Paulo (SP), Brazil), Julio Mott Ancona Lopez, Jorge Henrique Rivaben, Pedro Augusto Antunes Honda, Marcio Botter |
| PA2567 | Treatment of empyema thoracis in HIV-infected patients in the era of antiretroviral therapy: a thoracic surgeon's point of view | Dimitris Lioumpas (Athens, Greece), Aggeliki Panagiotou, Kostantinos Bouboulis, Ilias Samiotis, Ioannis Stamatakos, Despoina Mylonaki, Stylianos Zaragkas, Nikolaos Tzatzadakis |
| PA2568 | The use of Povidone iodine in the anticipation and management of prolonged post-operative air-leak | ASMA SAIDANE (TUNIS, Tunisia), Walid Abid, Yacine Ben Safta, Sami Dâloul, Mounir Ben Moussa, Mohamed-Sadok Boudaya |
| PA2569 | Role of rigid thoracoscopy in undiagnosed exudative pleural effusion | Moti Lal Bunkar (Jaipur (Rajasthan), India), Anil Saxena, Suman Kanhagrou, Rajendra Takhar, Babulal Bansiwal, Vineet Gupta, Shahin Lal, Savita Arya |
| PA2570 | Management of recurrent hepatic hydrothorax: a 5-year experience at a tertiary centre in Greece. | Dimitris Lioumpas (Athens, Greece), Konstantinos Bounpoulos, Ilias Samiotis, Ioannis Stamatakos, Despoina Mylonaki, Stylianos Zaragkas, Aggeliki Panagiotou, Nikolaos Tzatzadakis |
| PA2571 | Pleural empyema – does time matter? | Dionisio Joaquim de Castro Maia (Vila do Conde, Portugal), João Santos Silva, David Silva, Ana Rita Costa, João Eurico Reis, Ricardo Coelho, Alexandra Mineiro, Paulo Calvinho, João Cardoso |
| PA2572 | Comparative results of Sericin pleurodesis, as a novel pleurodesis agent | Alkan Yazıcıoğlu (Ankara, Turkey), Serkan Uysal, Tuba Sahinoglu, Mahmut Subasi, Funda Demirag, Erdal Yekeler |
| PA2573 | Uniporal thoracoscopy for pneumothorax | Camilla Poggi (Rome, Italy), Sara Mantovani, Ylenia Pecoraro, Carolina Carillo, Massimiliano Bassi, Davide Amore, Pietro Bruschini, Andréa Pagini, Giuseppe Naldi, Tiziano Di Giacomo, Daniele Diso, Erino Angelo Rendina, Federico Venuta, Marco Anile |
| PA2574 | Solitary fibrous tumor of the pleura. Presentation of a series of cases. | Servio Tulio Torres Rodriguez (Guatemala City, Guatemala), Danilo Herrera Cruz, Marco Antonio Peñalonzo Bendfeldt |
| PA2575 | Pecidled intercostal muscle flap for bronchus fistula prevention and treatment. | Aivars Berzins (Moers, Germany), Uldis Kopeika, Petar Traykov, Christian Roesel, Thomas Krbek |
PA2577  The operation of choice for closure of large defects of the anterior wall of the trachea.
Rustem Hayaliev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otubek Eshonkhodjaev

PA2578  Management of secondary tension pneumothorax as a complication of chronic obstructive pulmonary disease: self-experience study
Filip Shterev (Plovdiv, Bulgaria), Ivan Novakov

PA2579  Mediastinal masses: Clinical, radiological and pathological analysis
Darine Sakka (sfax, Tunisia), Hanen Smadhi, Achraf Ben Tkhayat, Hela Kamoun, Ines Akrout, Dorra Greb, Hajer Ben Abdelghaffar, Hela Hassan, Leila Elfekih, Mohamed Lamine Megdiche

PA2580  Surgical resection and outcome of multifocal adenocarcinoma of the lung
Funda Inceker (Ankara, Turkey), Deniz Kaygusuz Tikici, Sevki Mustafa Demiroz, Koray Aydogdu, Funda Demirci, Selim Sakir Erkmen Gulhan, Sadi Kaya, Gokturk Findik

PA2581  Thoracomyoplasty operations in treatment of postoperative complications it thoracic surgery.
Aleksy Reshetov (St. Petersburg, Russian Federation), Aleksy Elkin, Dmitry Ermacov, Tatiana Trunina

PA2582  Surgical management of pulmonary hydatid cyst with a thoracoscopic approach
Sarra Zairi (Tunis, Tunisia), Sabrine Louhaichi, Mehdi Abdennadher, Monia Attia, Amira Dridi, Hazem Zribi, Henda Neji, Sonia Ouerghi, Saoussen Hantous, Khaoula Ben Miled, Taher Mestiri, Adel Marghli

PA2583  Features and management of iatrogenic tracheal stenosis
Sabrine LOUAHCI (Ariana, Tunisia), Sarra Zairi, Abdelmalek Jelassi, Besma Hamdi, Mahdi Abdennadher, Hazem Zribi, Amira Dridi, Jamel Ammar, Adel Marghli

TP-16  Session 277  12:50 - 14:40
Thematic poster: Moving lung transplantation forward
Disease(s) : Respiratory infections  Interstitial lung diseases  Respiratory critical care  Thoracic oncology  Airway diseases
Method(s) : Cell and molecular biology  General respiratory patient care  Physiology  Respiratory intensive care  Endoscopy and interventional pulmonology  Transplantation

PA2584  LSC - 2018 - Development of a hybrid alginate-ECM hydrogel as a potential bioink for 3D bioprinting
Martina M. De Santis (Lund, Sweden), Darcy Wagner (Lund, Sweden), Chihiro Ota (chipaota@gmail.com / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich, Munich), Rita Costa (rita.costa@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich, Munich), Ali Doryab (ali.doryab@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich, Munich), Hani N. Alsafadi (hani.alsafadi@helmholtz-muenchen.de / Comprehensive Pneumology Center (CPC), Helmholtz Zentrum Munich, Munich), Deniz Bolukbas (deniz.bolukbas@med.lu.se / Department of Experimental Medical Sciences, Lund University, Lund), Melanie Konigshoff (MELANIE.KOENIGSHOFF@UCDENVER.EDU / Department of Medicine, University of Colorado, Denver), Darcy W. Wagner (darcy.wagner@med.lu.se / Department of Experimental Medical Sciences, Lund University, Lund)

PA2585  LSC - 2018 - Laser-capture microdissection, mass spectrometry and immunohistochemistry reveal pathological alterations in the extracellular matrix of transplanted lungs
Catharina Mueller (Lund, Sweden), Emma Ahman (emma.ahman@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science and Division of Infection Medicine, Department of Clinical Sciences, Lund University, Lund), Leif T. Eriksson (leif.eriksson@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science, Lund University, Lund, Department of Respiratory Medicine and Allergology, Lund University Hospital, Lund), Katharina Wassilew (katharina.wassilew@regionh.dk / Department of Pathology, Copenhagen University Hospital, Rigshospitalet, Copenhagen), Hans H. Schultz (Hans.Henrik.Lawaetz.Schultz.01@regionh.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet, Copenhagen), Hans Brunnstroem (hans.brunnstrom@regionh.dk / Department of Clinical Sciences in Lund, Division of Oncology and Pathology, Lund University and Department of Genetics and Pathology, Division of Laboratory Medicine, Region Skåne, Lund), Michael Perch (Michael.perch@regionh.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet, Copenhagen), Martin Iversen (martin@iversen-net.dk / Section for Lung Transplantation, Department of Cardiology, Copenhagen University Hospital, Rigshospitalet, Copenhagen), Johan Malmstroem (johan.malmstrom@med.lu.se / Division of Infection Medicine, Department of Clinical Sciences Lund, Lund University, Lund), Gunilla Westergren-Thorsson (gunilla.westergren-thorsson@med.lu.se / Lung Biology Unit, Department of Experimental Medical Science, Lund University, Lund)

PA2586  Safety of antifibrotic drugs in idiopathic pulmonary fibrosis patients awaiting lung transplantation
Significant associations between Escape-avoidance coping and emotional distress in patients evaluated for lung transplant
Torunn Stavnes Søyseth (Oslo, Norway), Mary Amanda Dew, May Brit Lund, Gro Killi Haugstad, Vidar Soyseth, Ulrik Fredrik Malt

Cardiovascular Autonomic Control in Lung Transplantation Recipients
Valeria Rosselli (Milano (MI), Italy), Giulia Coti Zelati, Eleonora Tobaldini, Letizia Corinna Morlacchi, Domenica Federica Briganti, Linda Bassi, Ilaria Righi, Stefano Aliberti, Paolo Tarsia, Nicola Montano, Francesco Blasi

The diaphragm before and after lung (LT)
Antonella LoMauro (Milano (MI), Italy), Andrea Aliveri, Emilia Privitera, Maurizio Vergari, Ilaria Righi, Manuela Sgroia, Davide Tosi, Valeria Rossetti, Federica Briganti, Peter Frykhol, Carla Colombo, Mario Nosotti, Alessandro Palleschi

Cardiopulmonary response to exercise after lung transplantation
Mariann Ulvestad (Oslo, Norway), Michael Thomas Durheim, May Brit Lund, Johny Kongerud, Stian Roterud, Elisabeth Edvardsen

Physical activity, physical fitness and quality of life in lung transplant recipients
Elisabeth Edvardsen (Oslo, Norway), Mariann Ulvestad, May Brit Lund, Johny Kongerud, Inger Lise Alteren, Hanne Flatsetøy, Vibeke Klungermo, Stian Roterud, Michael T Durheim

Donor lung pathological abnormalities and recipient outcomes

Bronchial stenosis, a critical complication in lung transplant: single center experience
Francesco Tarantini (Vimercate (MB), Italy), Giuseppe Ciaravino, Piercarlo Parigi, Luca Novelli, Lorenzo Corbetta

The role of pulmonary arterial wedge pressure in primary graft dysfunction
Federico B. M. Blasi (Milano (MI), Italy), Letizia Corinna Morlacchi, Valeria Rossetti, Rosa Casella, Paolo Tarsia, Mario Nosotti, Lorenzo Rosso, Paolo Mendogni, Federico Lombardi, Marco Vicenzi

Basiliximab induction reduces the incidence of acute rejection in lung transplant patients
Victor Manuel Mora Cuesta (Santander (Cantabria), Spain), David Iturbe, Laura González, Teresa Díaz, Sonia Fernández, Amaya Martínez, Ana Sangrador, Javier Gómez, Ainara Azúeta, Laura Sánchez, Sara Naranjo, Carlos Álvarez, Miguel Carbajo, Roberto Mons, Rodrigo Alonso, Virginia Pérez, Alicia De Pablo, José M. Cifrián

Differential gene expression of aquaporins (AQP) in lung transplant recipients with acute lung rejection.
Dimitrios Magouliotis (Larisa, Greece), Vasiliki Tasiopoulou, Kyriakos Spiliopoulos, Konstantina Svakou, Alexis Svakou, Kalliopi Athanassiadi

Retrospective analysis of efficacy of combined CMV prophylaxis scheme: Turin Lung Transplant Center experience
Filippo Patrucco (Torino (TO), Italy), Elisa Clivati, Giulia Verri, Erika Simonato, Daniela Libertucci, Cristina Costa, Antonio Curtoni, Massimo Boffini, Mauro Rinaldi, Caterina Bucca, Paolo Solidoro

COPD and alpha-1 antitrypsin deficiency emphysema: characteristics and survival after Lung Transplantation
Sara Isabel Campos Silva (Paços de Ferreira, Portugal), Nidia Cairis, Vânia Caldeira, Ricardo Dias Coelho, Ana Sofia Santos, Telma Lopes, Paulo Calvinho, Luisa Semedo, João Cardoso, José Fragata

Outcomes and survival in alpha-1 antitrypsin deficiency post lung transplantation
Jana Kleinerova (Dublin 8, Ireland), Lana Khorshedd, Iain Lawrie, Sara Winward, Karen Redmond, Donna Eaton, David Healy, Lars Nolke, Seyed Javadpour, Jim Egan

Evaluation of early conversion to prolonged-release tacrolimus in lung transplantation.
Marta Entrenas Castillo (CORDOBA, Spain), Isabel Ordoñez Dios, Francisca Monforto Ballesteros, Javier Redel Montero, Maria Jesús Cobos Ceballos, Francisco Santos Luna, Jose Manuel Vaquero Barrios

Incidence and risk factors for bronchiolitis obliterans syndrome stage 0p after lung transplantation
Sehyun Kwak (Seoul, Republic of Korea), Song Yee Kim, Ji Soo Choi, Sungwoo Moon, Juhye Shin, Ji-Eun Park, Moo Suk Park, Hyo-Chae Paik, Jin Gu Lee

Malignancies in lung transplant recipients: un update of the portuguese experience
Vania Caldeira (Azueira, Portugal), Tiago Sá, Sara Silva, Nidia Cairis, Ricardo Coelho, Sara Alfarroba, Ana Sofia Santos, Luisa Semedo, Joao Cardoso, José Fragata

Experience of lung transplant consultation in a non-transplant centre
Maria Asuncion Macia Palazon (Palma De Mallorca, Spain), Antonio Román Broto, Ernest Sala Llínas, Cristina Berastegui García, Manuel López Meseguer, Jaume Sauleda Roig
Thematic poster: Predicting the future: biomarkers of respiratory infection

**Disease(s):** Airway diseases, Respiratory infections, Respiratory critical care, Respiratory infections

**Method(s):** Cell and molecular biology, Public health, Respiratory intensive care, General respiratory patient care

**Chairs:** David Connell (London, United Kingdom), Rosario Menendez Villanueva (Valencia, Spain), Sebastian Ott (Bern, Switzerland), Oriol Sibila (Barcelona, Spain)

- **PA2604** Pepsin as a biomarker of reflux in NAR patients
  Rhianna Lenham (Kingston Upon Hull, United Kingdom), Rhianna Lenham, Qiuping Wang, Xiu Wang, Peter Dettmar

- **PA2605** Vitamin D and Bronchiectasis Severity Index (BSI): A correlation
  Sebastian Ferri (Catania (CT), Italy), Enrico Heffler, Raffaele Campisi, Carlo Chessari, Claudia Crimi, Nunzio Crimi

- **PA2606** Interleukin-6 levels as an evolution marker of late mortality and cardiovascular events after an episode of community-acquired pneumonia.
  Sergio Luquero Bueno (Madrid, Spain), José María Galván-Román, Jose Curbelo, Mara Ortega-Gómez, Ángel Lanchon-Sánchez, Lorena Vega-Piris, Manuel gómez, Hortensia De La Fuente, Carmen Suárez, L. Jesús Jiménez-Borreguero, Javier Aspa Marco

- **PA2607** Soluble urokinase plasminogen activator receptor (suPAR) for the prediction of ventilator-associated pneumonia (VAP)
  Pouline M.P. van Oort (Amsterdam, Netherlands), Lieuwe D. Bos, Pedro Povoa, Paula Ramírez, Antonio Torres, Antonio Artigas, Marcus J. Schultz, Ignacio Martin-Loeches

- **PA2608** Serum ferritin as a prognostic marker of pneumonia: a prospective, single center study
  Ji Hye Kim (Daejeon, Republic of Korea), Dae Sung Kim, In-Beom Jeong, Ji-Woong Son, Mun-Jun Na, Sun-Joong Kwon

- **PA2609** Relationship between Neutrophilic Airway Inflammation and Airway Colonisation in non-Cystic Fibrosis Bronchiectasis
  Federico Lorenzo Dente (Pisa (PI), Italy), Roberta Del Cesta, Maria Laura Bartoli, Matteo Bradicich, Marta Daniele, Maria Adelaide Roggi, Barbara Vagaggini, Pierluigi Paggiaro

- **PA2610** C-reactive protein (C-RP) in patients with chronic heart failure (CHF) and community-acquired pneumonia (CAP): usefulness to guide antibiotic prescription
  Andrey Bobylev (Smolensk, Russian Federation), Svetlana Rachina, Sergey Avdeev, Sergey Rachin, Daria Smirnova

- **PA2611** LYMPHOPENIA AS PREDICTOR OF LONG TERM MORTALITY IN PATIENTS WITH HOSPITAL ACQUIRED PNEUMONIA
  Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Meropi Panagiotarakou, Marta Martin-Fernandez, Raquel Almansa Mora, Otavio Ranzani, Catia Cilloniz, Gianluigi Li Bassi, Adamantia Liapikou, Miquel Ferrer, Jesus Bermejo-Martín, Antoni Torres

- **PA2612** Serum Albumin-Globulin ratio reversal predicts morbidity in patients hospitalized for Influenza A(H1N1) infection.
  Kartikeyan Ramaraju (Mumbai (Maharashtra), India), Anupama K Murthy, Nithilavalli Balasubramaniam, Vinoth Kumar Leon

- **PA2613** Usefulness of the measurement of plasma neutrophil gelatinase-associated lipocalin as a biomarker for predicting prognosis in hospitalized patients with pneumonia
  Sang-Heon Kim (Seoul, Republic of Korea), Ji-Hee Min, Tai Sun Park, Dong Won Park, Ji-Yong Moon, Tae Hyung Kim, Jang Won Sohn, Ho Joo Yoon

- **PA2614** The extent of microbiological testing and antibiotic de-escalation in adults with community-acquired pneumonia: a retrospective cohort study.
  Esther Wittermans (Nieuwegein, Netherlands), Stefan M T Vestjens, Willem Jan W Bos, Jan C Grutters, Ewoudt M W Van De Garde, Bart J M Vlaminckx

- **PA2615** MCC-IMS Spectral Analyses of Volatile Markers for Screening of Clinically Relevant Bacterial Infection
  Gunther Becher (Bernau, Germany), Roman Purkhart, Romy Gerber, Werner Schueler, Rolf Graupner

- **PA2616** The association between phagocytes in Gram-stained sputum and detection of causative organisms
  Koko Shibutani (Tokyo, Japan), Ryosuke Tsugitomi, Ryosuke Imai, Hiroaki Kanemura, Kenji Ishii, Kohei Okafuji, Atsushi Kitamura, Eri Hoshino, Hiroshi Ono, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

- **PA2617** Thrombotic disorders (blood coagulation test and Padua Prediction Score for risk of lung thrombosis)in hospitalized patients with community-acquired pneumonia (CAP)
  Maria Krykhhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva, Katerina Dyagovets
PA2618 Is it connection between systemic inflammation and risk of thrombotic disorders (by Padua scale) in hospitalized patients with community-acquired pneumonia (CAP)?
Mariia Krykhtina (Dniepropetrovsk, Ukraine), Ksenia Bielosludtseva, Tetyana Pertseva

PA2619 Evaluation of clinical and operational outcomes of a Point of Care Test for patients with suspected influenza in an acute medical unit.
Mahin Ahmad (Heswall, United Kingdom), Anuradha Jayachandran

PA2620 The Neutrophil-lymphocyte ratio in patients with community-acquired pneumonia
amir taboubi (Béja, Tunisia), Sonia Toujani, Safa Ben Khaled, Azza Slim, Abir Hedhli, Sana Cheikhrouhou, Yacine Ouahchi, Meriem Mjid, Samira Merai

PA2621 Is Neutrophil-lymphocyte ratio useful for differential diagnosis between pulmonary tuberculosis and bacterial community-acquired pneumonia.
Meriem Mjid (Tunis, Tunisia), Amir Taboubi, Abir Hedhli, Sonia Toujani, Safa Ben Khaled, Azza Slim, Sana Cheikhrouhou, Yacine Ouahchi, Samira Merai

PA2622 Procalcitonin has wider applicability in community-acquired pneumonia than other biomarkers
William Ward Siljan (Oslo, Norway), Jan C Holter, Annika E Michelsen, Ståle H Nymo, Jon Norseth, Einar Husebye, Trine Lauritzen, Thor Ueland, Tom E Mollnes, Pål Aukrust, Lars Heggelund

PA2623 IgG3 subclass deficiency as a predictive marker of mortality in patients admitted to ICU
Ji Hye Kim (Daejecon, Republic of Korea), Dae Sung Kim, In-Beom Jeong, Ji-Woong Son, Mun-Jun Na, Sun-Joong Kwon

TP-18 Session 279 12:50 - 14:40
Thematic poster: Pneumonia: from the community to the intensive care unit

Disease(s):  Airway diseases  Respiratory infections  Respiratory critical care  Respiratory infections
Method(s):  Cell and molecular biology  General respiratory patient care  Respiratory intensive care  Epidemiology  Public health

PA2624 Community-acquired pneumonia (CAP) with cytomegaloviral (CMV) persistence at young adults: prevalence and reciprocal burdening
Kiarina Chichirelo-Konstantynovych (Vinnitsya, Ukraine), Tetyana Konstantynovych, Larisa Moroz

PA2625 Verifying the antibiotic selection algorithm in the new Japanese pneumonia guidelines - Is algorithm-discordant treatment associated with increased mortality of healthcare-associated pneumonia?
Masahiro Aoshima (Kamogawa, Japan), Kei Nakashima, Makito Yaegashi, Atsushi Shiraishi

PA2626 Twenty-year Trend in Mortality among Hospitalized Patients with Pneumococcal Community-Acquired Pneumonia
Catia Cilloniz Campos (Barcelona, Spain), Adamanthia Liapikou, Ignacio Martin-Loeches, Carolina Garcia-Vidal, Albert Gabarrus, Adrian Ceccato, Josef Mensa, Francesc Marco

PA2627 Effectiveness of a 23-valent pneumococcal polysaccharide vaccine and a 13-valent pneumococcal conjugate vaccine among the elderly with chronic respiratory diseases
Toshiro Masuda (Shizuoka-city, Japan), Taisuke Akamatsu, Eiji Nakatani, Kanami Tamura, Shingo Takahashi, Yuko Tanaka, Hirofumi Watanabe, Yoshinari Endo, Takahito Suzuki, Rie Noguchi, Mika Saigusa, Akito Yamamoto, Yuichiro Shishido, Takefumi Akita, Satoru Morita, Kazuhiro Asada, Toshiro Shirai

PA2628 Clinical significance of virus detected community-acquired pneumonia in adults
Mi-Ae Kim (Daegu, Republic of Korea), Won-II Choi, Hyun Jung Kim, Sun Hyo Park, Jae Seok Park, Choong Won Lee

PA2629 Uncommon accumulation of multidrug resistance and virulence potential in carbapenemase ST-14 KPC-3 Klebsiella pneumoniae in Portugal: a high risk threat
Cátia Caneiras (Lisboa, Portugal), José Melo Cristino, Luis Lito, Sagrario Mayoralas-Alises, Aida Duarte

PA2630 Hospitalized community-acquired pneumonia in the elderly: etiology and comorbidities
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Sergiu Matcovschi, Tatiana Dumitr as, Iuliana Romanuic, Mihail Lupan, Diana Fetco-Meretcu, Nina Chicu

PA2631 Risk factors for long-term mortality in patients with pneumococcal community-acquired pneumonia
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Leyre Serrano Fernandez, Lorea Martinez-Indart, Ainhoa Gomez Bonilla, Amaia Artaraz Ereiño, Beatriz Gonzalez Quero, Amaia Aramburu Ojambarrera, Pedro Pablo España Yandiola, Rafael Zalacain Jorge
| PA2632 | Inhaled antibiotics, pneumonia and bacterial resistance in the ICU  
Lucy B. Palmer (Stony Brook, United States of America), Gerald C. Smaldone |
| PA2633 | Platelet activation is boosted early in community-acquired pneumonia and sustained until 30 days later  
Raúl Méndez (Valencia, Spain), Antonio Moscardó, Ana Latorre, Alba Piró, Isabel Amara-Elori, Alexandra Gimeno, Paula González, Laura Feced, Maria Teresa Climent, Rosario Menéndez |
| PA2634 | MACROLIDE RESISTANCE HAS A PROGNOSTIC IMPACT IN BACTEREMIC PNEUMOCOCCAL PNEUMONIA  
Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Estrella Fernández-Fabrellas, Nuria Tormo, Remedios Guna, Concepción Gimeno, José Blanquer |
| PA2635 | PREDICTING THE MORTALITY OF PNEUMONIA PATIENTS VISITING THE EMERGENCY DEPARTMENT THROUGH MACHINE LEARNING  
YEOL BAE (Seongnam-si, Gyeonggi-do, Republic of Korea), Hyungki Moon, Suhyun Kim |
| PA2636 | Carbapenem-resistance pathogens in HAP/VAP patients in US hospitals between 2010 and 2015  
Bin Cai (China), Bin Cai (FlorhFam Park, United States of America), Roger Echols, Frank Corvino, Deborah Rudin, Gareth Morgan, Yuko Matsunaga, Mari Ariyasu, Takuko Sawada, Tsutae Nagata |
| PA2637 | Effects of probiotic supplementation on procalcitonin level and clinical improvements in patients with pneumonia  
Reviono Reviono (Surakarta (Central Java), Indonesia), Sutanto Yusup, Harsini Harsini, Hartanto Dwi Nugroho |
| PA2638 | INCIDENCE AND RISK FACTORS FOR NEW ATRIAL ARRHYTMIA IN PNEUMOCOCCAL PNEUMONIA  
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Lorea Martinez-Indart, Beatriz Gonzalez Quero, Amaia Artaraz Ereño, Amaia Aramburu Ojembarrena, Ainhoa Gomez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge |
| PA2639 | Association of metformin and mortality for patients with diabetes who are hospitalized with pneumonia  
Eric Mortensen (Simsbury, United States of America), Antonio Anzueto |
| PA2640 | Recovery in adults hospitalised with community-acquired pneumonia; a systematic review and meta-analysis  
Harry Pick (Nottingham (Nottinghamshire), United Kingdom), Charlotte E Bolton, Wei Shen Lim, Tricia Mckeever |
| PA2641 | Effect of Oral Chlorhexidine in Preventing Hospital-Acquired Pneumonia among non-intubated patients in the Philippines  
martin kristoffer ogbac (Mandaluyong, Philippines), Jonathan Arquiza |
| PA2642 | Risk factors of nosocomial pneumonia in multiple trauma patients  
Syrine Chouchane (Sousse, Tunisia), Mohamed Kahloul, Chawki Jebali, Raoudha Chrigui, Sana Aissa, Marwa Chaabani, Mohamed Said Nakhli, Walid Naija |
| PA2643 | Optimizing treatment for community-acquired pneumonia in Denmark (The optiCAP study)  
Markus Fally (Frederiksberg C, Denmark), Jacob Anhøj, Lise Notander Clausen, Britta Tarp, Thomas Benfield, Pernille Ravn |

**TP-19 Session 280**  
12:50 - 14:40

**Thematic poster: Mechanisms of respiratory infection**

**Disease(s):** Respiratory infections, Respiratory critical care, Respiratory infections

**Method(s):** Endoscopy and interventional pulmonology, Physiology, Respiratory intensive care, Epidemiology, General respiratory care, Cell and molecular biology

**Chairs:** Charles Dela Cruz (New Haven, United States of America), Mustapha Si-Tahar (Tours, France), Jessica Rademacher (Hannover, Germany), Grant Waterer (Perth (WA), Australia)

**Three-dimensional lung epithelial cells potentiate aminoglycoside efficacy by enhancing intracellular pH in Pseudomonas aeruginosa**  
Aurélie Crabbé (Ghent, Belgium), Lisa Ostyn, Charlotte Rigauts, Heleen Van Acker, Martijn Risseeuw, Serge Van Calenbergh, Tom Coenye

**Characterization of murine model of chronic M. abscessus respiratory infection.**  
Camilla Riva (Milano (MI), Italy), Floriana Gona, Cristina Cigan, Marco Rossi, Antonio Esposito, Tamara Canu, Anna Colarieti, Alessandra Bragonzi, Enrico Tortoli, Daniela Maria Cirillo

**Dysregulation of lipid mediators in clinically stable bronchiectasis**  
Pallavi Bedi (Edinburgh (Scotland), United Kingdom), Donald Davidson, Brian Meugh, Adriano Rossi, Adam Hill
PA2647  Suppressor of cytokine signalling 1 (SOCS1) and asthma exacerbations
Kate Strong (London, United Kingdom), Jie Zhu, David Jackson, Jaideep Dhariwal, Maria-Belen Trujillo-Torralbo, Sebastian Johnston, Michael Edwards

PA2648  The impact of testosterone on Pseudomonas aeruginosa pathogenicity and antimicrobial susceptibility
Celine Vidaillic (Singapore, Singapore), Valerie Yong Lee, Tavleen Kaur Jaggi, Dan Roizman, Jagadish Sankaran, Thorsten Wohland, Liang Yang, Sanjay Harsh Chotirmall

PA2649  Inhaled phage therapy for the treatment of acute Pseudomonas aeruginosa lung infections
Elsa Bodier-Montagutelli (Tours Cedex, France), Jeoffrey Pardessus, Emilie Dalloneau, Cindy Fevre, Guillaume L'Hostis, Eric Morello, Jérôme Gabard, Sandrine Le Guèllec, Renaud Respaud, Laurent Vecellio, Nathalie Heuzé-Vourc'H

PA2650  Pseudomonas aeruginosa modulates the pulmonary immune response by affecting the IL17 / IL22 axis
Reem GHINNAGOW (Paris, France), Saadé Kheir, Béréngère Villerot, Nicolas Serafini, Ignacio Garcia-Verdugo, Jean Michel Sallenave

PA2651  Trivalent Influenza Vaccine Responses in COPD
Karl J. Staples (Southampton (Hampshire), United Kingdom), Nicholas P. Williams, Olivia Bonduelle, Andrew J. Hutton, Béhazine Combadière, Tom M.A. Wilkinson

PA2652  Amplified virus infection in a transforming growth factor-beta (TGFB) transgenic mouse model of inflammatory lung disease
Belinda Thomas (Melbourne (VIC), Australia), Keiko Kan-O, Hong-Mei Li, Ian Simpson, Jack Elias, Philip Bardin

PA2653  Exhaled volatile markers analysed using Selected Ion Flow Tube Mass Spectrometry discriminate Pseudomonas aeruginosa and Streptococcus pneumoniae lung infection in a rat model study
Gitte Slingers (Nieuwerkerken, Belgium), Poulène M. Van Oort, Gudrun Koppen, Adrie Maas, Joris J. Roelofs, Marcus Schultz, Philippe Jorens, Marc Raes, Lieuwe D. Bos

PA2654  Inflammatory exacerbation and inadequate interferone response to RV1b infection in HDM-sensitized lung tissue
Olga Danov (Hannover, Germany), Lisa Laßwitz, Helena Obernolte, Christina Hesse, Armin Braun, Sabine Wronski, Katherina Sewald

PA2655  Rapid in vitro detection of resistant strains by MCC-IMS
Claus Steppert (Bamberg, Germany), Tanja Dick, Isabel Steppert, Thomas Bollinger, Gunther Becher

PA2656  Effects of direct lung dosing of Tobramycin in a rat chronic infection model using Pseudomonas aeruginosa RP73
Mary Mcelroy (Edinburgh (Edinburgh), United Kingdom), Senthil Gandi, Islay Cranston, Gerry McLachlan, Steven Wright, James Baily, Susanna Stimpson, Stephen Madden, Mark Whitemarsh, Alan Young

PA2657  Impact of enzymes and toxins potentiality of four Aspergillus species to cause aspergillosis
Mohamed Fawzy Adam (Assiut, Egypt), Abdel-Naser Zohri, Bassam Aboul-Nasr, Enas Mahmoud Amer

PA2658  Adaptation to oxidative stress induced-lung injury: friend or foe of influenza infection?
Benoit Allard (Talence, France), Erwan Pernet, Jeffrey Downey, Maziar Divangahi, James Martin

Poulène M. van Oort (Amsterdam, Netherlands), Paul Brinkman, Gitte Slingers, Gudrun Koppen, Adrie Maas, Joris J. Roelofs, Ronny Schnabel, Dennis Bergmans, Roy Goodacre, Stephen Fowler, Marcus J. Schultz, Lieuwe D. Bos

PA2660  Influence of diabetes on serum profiles immune mediators and their association with the severity in patients hospitalized for pneumonia.
Renata Baez-Saldaña (Ciudad de México, Mexico), Carlos Lopez-Elizondo, Ricardo Lacurain-Ledesma, Leslie Chavez-Galan, Patricia Gorocica-Rosete

PA2661  Mycobacterium avium complex (MAC)-specific poly-functional CD8 T cells can discriminate MAC pulmonary disease from colonization
Chin-Chung Shu (Taipei, Taiwan), Ping-Huai Wang

PA2662  The medical tactics at repeated pneumonias.
Marina Karakina (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Natalia Ponomareva

PA2663  Lung vessel thrombosis like the reason of mortality at severe community-acquired pneumonia (CAP) of viral and bacterial etiology - autopsy data
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Katerina Dyagovets
Disease(s): Airway diseases, Respiratory infections

Method(s): Respiratory intensive care, Imaging, General respiratory patient care, Epidemiology

Chairs: Pieter Goeminne (Bornem, Belgium), Amelia Shoemark (Dundee (Angus), United Kingdom), Wim G. Boersma (Alkmaar, Netherlands), Michal Shteinberg (Haifa, Israel)

PA2664

Adverse events during treatment of nontuberculous mycobacterial lung disease: do they really matter?
Charlotte Balavoine (Etouy, France), François-Xavier Blanc, Philippe Lanotte, Jean Claude Meurice, Claire Andrejak, Sylvain Marchand-Adam

PA2665

Peripheral blood eosinophilia and clinical phenotype in Bronchiectasis
Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Simon Finch, Holy Keir, Thomas Fardon, James Chalmers

PA2666

Factors related to microbiological isolates in patients with Non Cystic-Fibrosis Bronquieactis (Non-CFBQ)
Jacinto Hernandez Borga (Badajoz, Spain), Miguel Benitez-Cano Gamonoso, Maria Jose Antona Rodriguez, Maria Teresa Gomez Vizcaino, Pilar Íñigo Naranjo, Pilar Cordero Montero, Amparo Sanz Cabrera, Jose Antonio Gutierrez Lara, Luis Miguel Sierra Murillo, Kaoutar El Boutaibi Faiz, Francisca Lourdes Marquez Perez

PA2667

Prognostic indicators of adult patients with non-CF bronchiectasis and those with combined COPD and non-CF bronchiectasis
Geraldine Lynch (Bristol (Avon), United Kingdom), Caroline McKerr, Adam Massey, Nabil Jarad

PA2668

Lung function decline in patients with bronchiectasis
Michal Shteinberg (Haifa, Israel), Alon Ikan, Yochai Adir, Nili Stein, Sonia Schnee

PA2669

A randomised placebo-controlled dose finding study of tobramycin inhalation powder (TIP) in patients with bronchiectasis (BE) and pulmonary P. aeruginosa Pa) infection (iBEST-1)

PA2670

Quality of life is associated with increased symptom burden and markers of disease severity: data from the German Bronchiectasis Registry PROGNOSIS
Felix C. Ringshausen (Hannover, Germany), Philipp Sokol, Grit Barten, Andrés De Roux, Roland Diel, Stefanie Konwert, Tobias Welte, Marie-Louise Witte, Annegret Zurawski, Jessica Rademacher

PA2671

Paratracheal air cysts in patients with non-CF bronchiectasis
Oxana Munteanu (Chisihau, Republic of Moldova), Irina Volosciuc, Doina Rusu, Eugenia Scutaru, Leonid Onea, Victor Botnaru

PA2672

Validation of the Italian version of Bronchiectasis Quality of Life Questionnaire (QoL-B)
Elisa Franceschi (Milano (MI), Italy), Angela Bellafiore, Cesare Del Monaco, Andrea Gramegna, Fabrizio Nava, Noemi Borsa, Francesco Amati, Martina Contarini, Alexandra Quittner, Ilaria Baiardi, Stefano Aliberti, Francesco Blasi

PA2673

Validation of Murray sputum purulence scale in the Italian Registry of Bronchiectasis (IRIDE)
Elisa Franceschi (Milano (MI), Italy), Stefano Aliberti, Federico Dente, Marialma Berlendis, Emanuela De Juli, Salvatore Battaglia, Andrea Gramegna, Francesco Amati, Martina Contarini, Cecilia Calabrese, Valentina Conio, Vittoria Comellini, Nunzio Crimi, Angela Corsico, Paola Favorio, Sebastian Ferri, Carla Galeone, Francesco Menzella, Stefano Nava, Pierluigi Paggiaro, Nicola Scichilone, Maurizio Dottorini, Rosa Di Matteo, Meridiana Dodaj, James D Chalmers, Giovanni Sotgiu, Francesco Blasi

PA2674

Etiology, clinical, radiological and microbiological profile of patients with non-CF bronchiectasis in Pakistan. A single center study.
Nadia Sharif (Karachi, Pakistan), Mirza Saifullah, Nisar Rao

PA2675

Effect of prior year pulmonary exacerbation (PE) frequency on response to ARD-3150 in patients with non-cystic fibrosis bronchiectasis (NCFB) chronically infected with Pseudomonas aeruginosa (PA)
James D. Chalmers (Dundee (Angus), United Kingdom), Bruce Thompson, Juergen Froehlich, Angela Davis, Janice Dahms, David Cipolla, Igor Gonda

PA2676

The heterogeneity of bronchiectasis patient characteristics, management and outcomes across Europe: Data from the EMBARC registry
James D. Chalmers (Dundee (Angus), United Kingdom), Eva Polverino, Francesco Blasi, Felix Ringshausen, Anthony De Soyza, Montse Vendrell, Pieter Goeminne, Win Boersma, Charles Haworth, Marlene Murriss, Adam Hill, Michael Loebinger, Rosario Menendez, Antoni Torres, Katerina Dimakou, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti

PA2677

ABPA screening in bronchiectasis: is there a grey zone?
Paola Favorio (Limbiate (MI), Italy), Giulia Bonaiti, Anna Stainer, Federica De Giacomia, Stefano Zucchetti, Bruno Dino Bodini, Francesco Bini, Alberto Pesci
Impact of Inflammatory bowel disease in bronchiectasis (IBD-BR) data from the EMBARC registry
Anthony De Soyza (Newcastle-upon-Tyne, United Kingdom), James Chalmers, Dimakou K, Adam Hill, Michael Loebinger, Rosario Menendez, Francesco Blasi, Felix Ringshausen, Montserrat Vendrell, Pietr Goeminne, Wim Boersma, Antonio Torres, Tobias Welte, Rob Wilson, Charles Haworth, Marlene Murris, Eva Polverino, Stefano Aliberti

Factors associated with the need of intravenous antibiotics in a cohort of adult patients with non-CF bronchiectasis
Caroline McKerr (Bristol (Avon), United Kingdom), Adam Massey, Geraldine Lynch, Nabil Jarad

Etiology of 1805 adult patients with bronchiectasis in western China
Bicui Liu (Chengdu, China), Dan Wang, Chuntao Liu, Jian Luo, Tingxuan Huang, Binmiao Liang, Xiaoohu Wang, Dan Yang

Cross-sectional comparison of the bronchiectasis-specific quality of life questionnaires
Arietta Spinou (London, United Kingdom), Georgie Housley, Surinder S Birring, Robert Wilson, Michael R Loebinger

Robustness of assessment of pulmonary endpoints in phase 3 trials with ARD-3150 in non-cystic fibrosis bronchiectasis (NCFB) patients with chronic Pseudomonas aeruginosa (PA) infections
Juergen Froehlich (Hayward, United States of America), Anne O'Donnell, Bruce Thompson, Janice Dahms, David Cipolla, Angela Davis, Igor Gonda, Charles Haworth

Is there a relationship between adventitious respiratory sounds and disease severity in patients with bronchiectasis? A cross-sectional study.
Iciar Tobajas-Sagaste (Ejea de los Caballeros, Spain), Marina Francín-Gallego, Marta San Miguel-Pagola, Juan Antonio Saez-Perez, Beatriz Herrero Cortina

Routine liver function test monitoring of patients treated for active M.TB infection does not influence management: A real-world retrospective study
Eshrina Gosal (Nottingham, United Kingdom), Amanda Goodwin, Vidya Navaratnam, Lois Dexter, Anna L Rich

How does arginine effect on the course of tuberculosis? Experimental trial
Igor Medvinsky (Yekaterinburg (Sverdlovsk), Russian Federation), Iliia Diachkov, Elena Sabadash, Sergey Skornyakov, Vyacheslav Kotomtsev, Vladimir Pavlov, Elena Ivanchikova

Determinants of lymph node resolution in patients of tubercular lymphadenitis treated with anti tuberculous chemotherapy.
Alkesh Khurana (Bhopal (Madhya Pradesh), India), Vikas Gupta, Deepi Joshi, Abhishek Goyal, Kamendra Pawar, Abhijit Pahakare

Mycobacterium tuberculosis resistance profiles in index and secondary TB cases from the same household
Elena Chesov (Chisinau, Republic of Moldova), Greta Balan, Nelly Ciobanu, Dumitru Chesov, Valeriu Crudu

Improved Concordance Between Anti-TB Prescriptions and Treatment Guidelines by Expert Prescription Review in Taiwan
Meng-Jer Hsieh (Taipei, Taiwan), Yi-Wen Huang, Ying-Huang Tsai, Jia-Yih Feng, Wei-Juin Su

Precision medicine in tuberculosis treatment – a role for pharmacogenetics?
Maria Celeste da Silva Alcobia (Coimbra, Portugal), Luis Nogueira, Miguel Villar, Carlos Robalo Cordeiro, Carlos Fontes Ribeiro, Fernando Regateiro, Henriqueta Coimbra Silva

EFFICACY OF SENSITIVE TUBERCULOSIS TREATMENT WITH MALABSORPTION SYNDROM DURING IV ADMINISTRATION OF ANTI-TUBERCULOSIS DRUGS
Lilij Todoriko (Chernivtsi, Ukraine), Olena Podverbetskaya, Nikolay Gumenyuk, Mihaylo Kuzhko, Igor SemiAniv, Oleksiy Denisov, Tetiana Sprynsian, Inga Eremenchuk

Lymph node tuberculosis: Criteria for cure and optimal duration of treatment
Sofiiane Alilhalassa (El-Madina Alager, Algeria)

Vitamin D levels in patients with active TB: Is it clinically relevant?
Madeleine L B Jacobs (Nottingham, United Kingdom), Eshrina Gosal, Amanda Goodwin, Vidya Navaratnam, Lois Dexter, Anna L Rich
<table>
<thead>
<tr>
<th>Session 283</th>
<th>12:50 - 14:40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TP-22</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Thematic poster: Tuberculosis comorbidities</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Disease(s):**  
- Respiratory infections  
- Airway diseases  
- Thoracic oncology  
- Respiratory infections  

**Method(s):**  
- Imaging  
- Endoscopy and interventional pulmonology  
- Epidemiology  
- Public health  
- Physiology  
- General respiratory patient care  

**Chairs:**  
Ana Ciobanu (Chisinau, Republic of Moldova), Cécile Magis-Escurra (Nijmegen, Netherlands), Ana Castro (Madail - Oliveira de Azemeis, Portugal), Dennis Falzon (Genève, Switzerland)  

**PA2693**  
**TREATMENT OUTCOME OF THE RETREATMENT TUBERCULOSIS PATIENTS UNDER TUBERCULOSIS CONTROLE PROGRAMME IN A TB ENDEMIC PART OF INDIA**  
Ashwini Kumar Mishra (GORAKHPUR (UTTAR PRADESH), India), Praveen Bahadur Gautam, Santosh Kumar  

**PA2694**  
**Fixed-dose combination antituberculosis therapy: is the INH dose adapted for the Tunisian population?**  
Achraf Ben Tkhayat (Ariana, Tunisia), Soumaya Ben Saad, Hafaoua Daghfous, Fatma Tritar  

**PA2695**  
**Effectiveness of REBT psychotherapy approach on reducing cognitive distortions in tubercular patients**  
Mitra Safa (TEHRAN, Islamic Republic of Iran), Payam Tabarsi, Fatemeh Ghassem Boroujerdi, Bamdad Mirab Zadeh Ardekani, Farzaneh Haji Zadeh  

**PA2696**  
**Management of bronchopleural fistulas after pneumonectomy in tuberculosis patients by means of vascular occluders**  
Alexander Bazhenov (Ekaterinburg, Russian Federation), Igor Motus, Igor Medvinsky, Anna Tsivirenko, Rauf Basyrov, Lev Kardapolshev, Petr Holniy, Ivan Dotsenko, Sergey Skornyakov  

**PA2697**  
**High incidence of new onset joint pain in patients receiving fluoroquinolones as part of anti-tuberculous treatment**  
Neha Agrawal (Indore (Madhya Pradesh), India), Tejashree Lele, Preyas J Vaidya, Vinod Chavhan, Anne Taegtmeyer, Joerg Leuppi, Prashant N Chhajed  

**PA2698**  
**Function of the thyroid gland in patients with tuberculosis**  
Yacine Benbetka (Alger, Algeria), Souad Souilah, Aziza Fissah  

**PA2699**  
**Manifestations of hypersensitivity to anti-tuberculosis drugs**  
Yacine Benbetka (Alger, Algeria), Souad Souilah, Aziza Fissah  

**PA2700**  
**Frequency of adverse reactions to first-line anti-tuberculosis chemotherapy in patients with relapse(RTB)and newly diagnosed tuberculosis(NDTB)**  
Dmytro Butov (Kharkiv, Ukraine), Mykhailo Kuzhko, Ganna Stepanenko, Tetiana Butova  

**PA2701**  
**Diagnosis and treatment of tuberculosis: what place is left for thoracic surgery?**  
Sarra Zairi (Tunis, Tunisia), Sabrine Louhaich, Amira Dridi, Mehdi Abdennadher, Hazem Zrabi, Hafaoua Daghfous, Emna Brahem, Aida Ayadi, Sonia Ouerghi, Fatma Tritar, Faouzi Mezni, Adel Marghli  

**PA2702**  
**Particular features of resumption of working capacity after resection of lungs in patients with destructive tuberculosis of lungs revealed for the first time**  
Yaroslav Voloshy (Kyiv, Ukraine), I. Kalabukha  

**PA2703**  
**Evaluation of hormones in the menstrual cycle of women with pulmonary tuberculosis**  
T. A. Aswathy (Thrissur (Kerala), India), Gopal Purohit, Sunil Vyas  

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**ERS 2018 International Congress**  
**DETAILED PROGRAMME**  
**MONDAY 17 SEPTEMBER, 2018**
PA2708 Results of treatment of patients with pulmonary tuberculosis combined with HIV infection and hepatitis
Tatiana Ivanovna Morozova (Saratov (Saratov Oblast), Russian Federation), Tatiana Salina

PA2710 Tuberculosis treatment outcomes in HIV co-infected patients in Novokuznetsk, Russian Federation
Vera Nikolaevna Zimina (Moscow, Russian Federation), Irina Viktorova, Alexey Kravtchenko, Arkadiy Khanin

PA2711 Impact of diabetes mellitus on MDR-TB outcome
Lesnica Evelina (Chisinau, Republic of Moldova), Alina Malic, Adriana Niguleanu, Veronica Maximovici

PA2712 Impact of diabetes mellitus on pulmonary tuberculosis clinical presentation and treatment outcomes
Belma Paralija (Sarajevo, Bosnia and Herzegovina), Aida Mujakovic

PA2713 The impact of diabetes mellitus (DM) on adverse events related to tuberculosis (TB) chemotherapy (ATT):
Retrospective cohort study at the National Hospital of Respiratory Diseases, Sri Lanka
Amila Rathnapala (Minuwangoda, Sri Lanka), Damith Rodrigo, Dhanusha Punyadasa, Wijitha Senaratne

PA2714 The impact of diabetes mellitus on respiratory muscles strength in patients with tuberculosis (TB) and COPD
Larisa Kiryukhina (St. Petersburg, Russian Federation), Vera Sysoeva, Nina Denisova, Natalia Nefedova, Liudmila Archakova, Piotr Yablonskii

PA2715 Cytomegalovirus infection in patients with lung tuberculosis
Alexey Shibanov (Moscow, Russian Federation), Vladimir Stakhanov, Natalia Karazhas

PA2716 Association lung function disorders and the respiratory muscles strength in patients with tuberculosis (TB) and COPD
Larisa Kiryukhina (St. Petersburg, Russian Federation), Vera Sysoeva, Nina Denisova, Natalia Nefedova, Liudmila Archakova, Piotr Yablonskii

PA2717 Matrix Metalloproteinases (MMPs) in patients with pulmonary tuberculosis (PT) and comorbid COPD
Diljara Esmedlyaeva (St. Petersburg, Russian Federation), Larisa Kiryukhina, Marina Dyakova

PA2718 Adenosine deaminase in the COPD pathogenesis in patients with pulmonary tuberculosis
Larisa Kiryukhina (St. Petersburg, Russian Federation), Marina Dyakova, Diljara Esmedlyaeva

PA2719 Active tuberculosis and lung cancer: a 6-year retrospective study
Joana Sofia Vicente De Carvalho (Bobadela LRS, Portugal), Miguel Afonso, Filipa Ferro, Ana Cysneiros, Teresa Mourato, Alexandre C Gomes, Conceição Gomes, Ana Tavares E Castro

PA2720 Lung cancer and TB incidence evolution in Portugal
Margarida Souto Vargas-Castanho (Lisboa, Portugal), Sara Cerqueira, Marta Sousa, Marta Gomes, Rita Gaio, Raquel Duarte

PA2721 Diagnosis of chronic pulmonary aspergillosis (CPA) complicating pulmonary tuberculosis by chest X-ray
Iain Page (Manchester (Greater Manchester), United Kingdom), Rosemary Byanyima, Sharath Hosmane, Nathan Onyachi, Cyprian Opira, John Opwonya, Malcolm Richardson, Richard Sawyer, Anna Sharman, David Denning

PA2722 Diabetes, body mass index, and risk of active tuberculosis
Avril Soh (Singapore, Singapore), Cynthia Chee, Yee-Tang Wang, Woon-Puay Koh

PA2723 Tuberculosis in the very elderly – clinical presentation and treatment outcomes
Miguel Frederico Baia Alonso (Oeiras, Portugal), Filipa Ferro, Joana Carvalho, Ana Cysneiros, Ana Tavares E Castro, Teresa Mourato, Alexandre C Gomes, Conceição Gomes

TP-23 Session 284 12:50 - 14:40
Thematic poster: Groups who are susceptible to tuberculosis: children, pregnant women and elderly people

Disease(s): Respiratory infections, Airway diseases, Respiratory infections
Method(s): Imaging, Surgery, Cell and molecular biology, Epidemiology, Respiratory intensive care, Public health, General respiratory patient care

Chairs: Aysegul Fusun Öner Eyübo lu (Ankara, Turkey), Mateja Jankovic Makek (Zagreb, Croatia), Keertan Dheda (Cape Town, South Africa), Folke Brinkmann (Hannover, Germany)

PA2724 Role of high resolution computed tomography in childhood tuberculosis diagnosis
Elena Lupu (Chisinau, Republic of Moldova), Stela Kulcitkaia, Constantin Iavorschi, Nadejda Pisarenco, Victor Cebotari

PA2725 Lymph-node puncture benefits in ganglionic childhood tuberculosis
Besma Hamdi (Manouba oued ellil, Tunisia),ERRY Jdidi, HAJER KCHOK, INESS MOUSSA, JAMEL AMMAR, ANISSA BERRAIES, Agnes Hamzaoui
Clinical and epidemiological features of respiratory morbidity in children with latent tuberculosis infection in the Republic of Moldova
Iavorschi Constantin (Chisinau, Republic of Moldova), Irina Sincarenco, Ana Moscovciuc, Valentina Bolotnikova

MAIT and Tuberculosis in children: a different behavior from adults.
Véronique Houdouin (Paris, France), Ghada Ben Youssef, Lianna Ghazarian, Veronique Durey, Clara Malka, Albert Faye, Sophie Caillat-Zucman

Clinical-laboratory profile of children and adolescents who performed the Rapid molecular-TB test (TRM-TB) in Rio de Janeiro
Rafaela Baroni Aurilio (Rio De Janeiro (RJ), Brazil), Maria De Fátima Bazhuni Pombo March, Clemo Couto Sant Anna, Thania Andrade, Afranio Kritskia, Thiago Malaquias

The dynamics of tuberculosis incidence and diagnostics of latent tuberculosis infection in children of Ukraine.
Olga Bilogortseva (Kyiv, Ukraine)

Use of the Recombinant Tuberculosis Allergen in the Early Diagnosis of Tuberculosis in Paediatric Patients
Tatiana Ivanovna Morozova (Saratov (Saratov Oblast), Russian Federation), Elena Alexandrova

The role of molecular genetic studies of resected samples for M. tuberculosis in children after TB surgery
Irina Petrakova (Moscow, Russian Federation), Marina Gubkina, Elena Larionova, Natalya Yukhimenko

Children with TB treated in the one clinic for childhood TB in Sofia – Bulgaria for the period 2013-2017
Svetlana Velizarova (Sofia, Bulgaria), Natalia Gabrovskva, Maria Paskova

The role of immunological tests in the diagnosis of tuberculosis infection in children with juvenile idiopathic arthritis (JIA)
Dmitry Kudlay (Moscow, Russian Federation), Ludmila Shovkun, Valentina Aksenova, Alexey Sarichev

TB detection in children in Moscow (Russia) as in low TB incidence region
Evgeny Belilovskiy (Moscow, Russian Federation), Valentina Aksenova, Tatyana Severstyanova, Sergey Borisov, Ludmila Slogodskaya, Luiza Shumuratova

The Efficacy of Screening for Tuberculosis Infection in Paediatric Population in the Republic of Tatarstan
Aleksey Alekseev (Kazan, Russian Federation), Ramziya Fatykhova

The characteristics of TB processes in children exposed to household TB
Yulia Khokhlova (Moscow, Russian Federation)

Evaluation of Tuberculin skin test size and risk of tuberculosis infection in children household contact
Besma Hamdi (Manouba oued ellil, Tunisia), Moussa Ines, Louhaichi Sabrine, Anmari Sarra, Ben Jemai Emna, Ammar Jamel, Berraies Anissa, Hamzaoui Agnes

Latent tuberculosis in healthy children
Larissa Gorbach (Minsk, Belarus)

Tuberculosis in pregnant and postpartum women.
Svetlana Goponiako (Gomel, Belarus), Irina Buynevich, Dmitriy Ruzanov

Particularities of tuberculosis in pregnant women
Oxana Sili (Chisinau, Republic of Moldova), Valentina Vilc

Clinical, radiological, évolutif and génétique aspect of pulmonary tuberculosis (PT) in the elderly subject without comorbidities.
Yacine Benbetka (Alger, Algeria), Karim Saadi, Aziza Fissah

Tuberculosis in elderly patients
Cristian Cojocaru (Iasi, Romania), Constantin Cristian Grigoras, Elena Cojocaru, Adriana Grigoras

Thematic poster: Pulmonary tuberculosis: long term complications, rehabilitation and challenges

Thematic poster: Pulmonary tuberculosis: long term complications, rehabilitation and challenges

Thematic poster: Pulmonary tuberculosis: long term complications, rehabilitation and challenges
PA2743 Chronic pulmonary aspergillosis in patients with post-tuberculosis bronchiectasis
Oxana Munteanu (Chisihau, Republic of Moldova), Irina Volosciuc, Eugenia Scutaru, Victor Botnaru

PA2744 Predictive factors of sequelae among Tunisian patients treated for pulmonary tuberculosis.
Meriem Mjid (Tunis, Tunisia), Safa Ben Khaled, Abir Hedhli, Sonia Toujani, Amir Taboubi, Azza Slim, Sana Cheikh Rouhou, Yacine Ouahchi, Samira Merai

PA2745 Post tuberculosis sequelae in patients treated for tuberculosis: An observational study at a tertiary care center of a high TB burden country
Maryam Gohar Ali (Hyderabad (Sindh), Pakistan), Zubair Syed Muhammad, Talha Shahzad, Afshan Yaseen, Muhammad Irfan

PA2746 Long term sequelae of pulmonary tuberculosis and the factors predicting its development: A clinicoradiological study
Jayamol Revendran (Navi Mumbai (Maharashtra), India), Kalpita Patil, Girija Nair, Abhay Uppe, Viral Nanda, Sayli Sawant, Abhishek Nuchin

PA2747 Clinical manifestation and pulmonary function test after post tuberculosis treatment
Abolfazl Mozaffari (qom, Islamic Republic of Iran), Abolfazl Mozaffari (Tehran, Islamic Republic of Iran)

PA2748 Post-Tuberculosis Bronchiectasis in India:Outcomes of the Indian EMBARC Registry

PA2749 Pulmonary function and Quality of Life in patients with treated smear positive pulmonary tuberculosis at three tuberculosis clinics in Nairobi, Kenya
Peter Ngaruiya Mugo (Nairobi, Kenya), Jared Mecha, Chakaya Muhwa

PA2750 Assessment of lung functions in patients of pulmonary tuberculosis(PTB) after completion of their anti-tubercular medicationGaurav Gupta, A.S Chitnis
Gaurav S.N. Gupta (Ashok Nagar (Madhya Pradesh), India), A.S Chitnis

PA2752 LAMA increases pulmonary lung functions in post-tuberculous destroyed lung patients
Ji Hye Kim (Daejeon, Republic of Korea), In-Beom Jeong, Ji-Woong Son, Mun-Jun Na, Sun-Jung Kwon

PA2753 Atypical locations of tuberculosis in a pulmonary diagnostic center in Portugal
Margarida Pimenta Queiroz Valério (Abrantes, Portugal), Denny Marques Rodrigues, Eunice Dias, Paulo Cravo Roxo, Catarina Ferreira

PA2754 Extrapulmonary Tuberculosis: 21 Patients at Western Visayas Medical Center DOTS Clinic, Philippines (January 2016 to December 2017)
Fel Angelie Colon (Iloilo City, Philippines)

PA2755 Retrospective study of abdominal tuberculosis without pulmonary involvement: a difficult to diagnose form of extrapulmonary tuberculosis
Ana Santos Dornellas Csyeiros (Lisboa, Portugal), Miguel Afonso, Filipa Ferro, Joana Carvalho, Teresa Mourato, Alexandre Gomes, Conceicao Gomes, Ana Castro

PA2756 Prevalence of positivity of CBNAAT(cartridge based nucleic acid amplification test) in extra-pulmonary tuberculosis.
Mahesh Gupta (Rohtak (Haryana), India), Gopal Purohit, Sunil Vyas

PA2757 Neutrophil-predominant effusion as a predictive factor for outcome in tuberculosis pleurisy
Kanako Katayama (Sakai city, Japan), Kazunari Tsuyuguchi, Yu Kurahara, Takehiko Kobayashi, Naoko Takeuchi, Toru Arai, Yoshikazu Inoue, Katsuhiro Suzuki

PA2758 Differentiating tuberculous pleuritis from other exudative lymphocytic pleural effusions
Pichaya Petborom (Nakhon Nayok, Thailand), Bothamai Dechates, Panumat Muangnoi

PA2759 Diagnostic Utility of Closed Needle Pleural Biopsy in Exudative Pleural Effusions
Sameer Bansal (Navi Mumbai (Maharashtra), India), Ketaki Utpat, Unnati Desai, Jyotsna Joshi

PA2760 Use of pleural fluid interferon-gamma enzyme-linked immunospot (ELISPOT) assay in the evaluation of undiagnosed pleural effusion
Zia Hashim (Lucknow (Uttar Pradesh), India), Alok Nath, Vikas Agarwal, Ravi Mishra
Diagnostic performance of interferon-gamma release assay for tuberculous pericarditis: A systematic review and meta-analysis
Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Tae Hwa Kim, Doo Soo Jeon, Seung Eun Lee, Seong Hoon Yoon, Hye Ju Yeo

Yield of sputum AFB smear, gene xpert & sputum culture of MTB in biopsy proven Pleural Tuberculosis.
Kamran Khan (Karachi, Pakistan), Nadeem Rizvi

**TP-25**

**Session 286** 12:50 - 14:40

**Thematic poster: Lung cancer: new tools for diagnosis and patient assessment**

**Disease(s):** Thoracic oncology  Respiratory infections  Respiratory infections

**Method(s):** Cell and molecular biology  General respiratory patient care  Imaging  Surgery  Endoscopy and interventional pulmonology

**Chairs:** Matthew Evison (Manchester, United Kingdom), Amadea Heitmann (London, United Kingdom), Konstantinos Tzimopoulos (Athens, Greece), Konstantinos Loversos (Athens, Greece)

**PA2763** Cardiopulmonary Exercise Test parameters as predictors of postoperative morbidity in lung cancer surgery
Ana Maria Fortuna Gutierrez (Barcelona, Spain), Marta Lenczewska, J.C. Trujillo Reyes, Elizabeth Martinez Tellez, Nuria Calaf Sordo, Pilar Moros Garces, M.D. Luque Toro, J. Belda Sanchis, Mercè Mayos Pérez

**PA2764** Preoperative evaluation of patients undergoing lung resection using cardiopulmonary exercise testing in predicting postoperative respiratory complications
Alice Tašková (Praha 84, Czech Republic), Marie Drösslerová, Vladislav Hytych, Martina Vašáková

**PA2765** Prognostic role of PET/CT in surgically treated pN0-1 Non-Small-Cell Lung Cancer
Irina Zemtsova (Saint Petersburg, Russian Federation), Andrey Petrov, Michael Atiukov, Marina Tlistanova, Piotr Yablonski

**PA2766** Incidental findings in Positron Emission Tomography - Computed Tomography for Lung Cancer Assessment
Sabrina Black (London, United Kingdom), Tom Nicholson, James Tadjkarimi, Krista Adelmann, Chris Watthen

**PA2767** Diagnostic accuracy of flexible bronchoscopy for lung cancer diagnosis in an expert center
Laurent Mhanna (Toulouse, France), Nicolas Guibert, Julien Mazieres, Alain Didier, Gavin Plat, Christophe Hermant

**PA2768** Core needle biopsy in malignant pulmonary lesions
Cristina María Carrasco Carrasco (SEVILLA, Spain), Jorge Lima Alvarez, Angela Reina Gonzalez, Alberto Beiztegui Siller, Nicolás Peña Griñán

**PA2769** Feasibility study of cryobiopsy for practical pathological diagnosis including immunohistochemical assessment of primary lung cancer
TOMOKI NISHIDA (Chigasaki, Kanagawa Pref., Japan), Yuji Matsumoto, Midori Tanaka, Toshiyuki Nakai, Yuichiro Ohe, Shun-Ichi Watanabe, Noriko Motoi

**PA2770** An 8 year- review of granulomatous inflammation in EBUS samples- common in sarcoidosis, rare but identified in the setting of cancer where FDG uptake can be observed on PET scanning.
Cathal Tobin-O’Brien (Clonmel, Ireland), Stephen Shehan, Niall Swan, Marie Mcnally, Marcus Butler, Aurelie Fabre

**PA2771** A promising tool for T-staging of lung cancer: Is convex probe endobronchial ultrasound better than computerized tomography in determining invasion of mediastinal and hilar vessels?
Ibrahim Onur Alici (IZMIR, Turkey), Seher Susam, Melike Yuksel Yavuz, Eda Bayramic, Filiz Guldavalo, Ceyda Anar, Ahmet Ucvet, Melih Buyuksrin

**PA2772** Systematic staging through endobronchial ultrasound-guided transbronchial needle aspiration compared with targeted staging in patients with non-small cell lung cancer.
Leire Mendiluce Ochandorena (BARCELONA, Spain), Pere Serra Mitjà, Jose Sanz Santos, Anabel Moreno Garcia, Carmen Centeno Clemente, Mohamed Torky, Sonia Baeza, Filipe Carvalho, Felipe Andreo Garcia, Jorge Abad Capa

**PA2773** Comparison of endobronchial ultrasound-guided transbronchial needle aspiration and positron emission tomography standard uptake values in mediastinal or hilar lymph node evaluation in benign, granulomatous and malignant disease
Nazar Bayram (Gaziantep, Turkey)

**PA2774** Does a “first sample into the pot” methodology improve the yield to enable molecular testing on samples obtained by EBUS?
Jenny Messenger (Brighton (Brighton and Hove), United Kingdom), Lukas Kalinke, Emma Short, Sarah Doffman, Mark Howard
Molecular analysis of peripheral lung adenocarcinoma in brush cytology obtained by endobronchial ultrasound plus fluoroscopy-guided

Roberto Chalela (Barcelona, Spain), Clara Martin Ontiyuelo, Lara Pijuan Andujar, Raquel Albero Gonzalez, Beatriz Bellosillo Paricio, Alba Dalmases Massegu, Raquel Longaron Rozalen, Victor Curull Serrano, Albert Sanchez Font

Transbronchial sampling for pulmonary metastasis used by new middle-range bronchoscope with large channel

Shinji Sasada (Tokyo, Japan), Yuji Matsumoto, Morio Nakamura

The role of EBUS-TBNA in genetic phenotype determination at adenocarcinoma cases

Benan Caglayan (Istanbul, Turkey), SEVDA COMERT, Sinem Flian, Ömer Zengin, Pinar Bulutay, Nagehan Barışık

Risk factors for infectious complications after endobronchial ultrasound guided transbronchial biopsy

Tomohide Souma (Nagoya, Japan), Tomoyuki Minezawa, Takuya Okamura, Tomoya Horiguchi, Sayako Morikawa, Yasuhiro Goto, Masamichi Hayashi, Sumito Isogai, Masashi Kondo, Kazuyoshi Imaizumi

Prognostic Impact of Extracapsular Lymph Node Invasion on Survival in non-Small-cell Lung Cancer: a Systematic Review of Medline and Meta-analysis

Seyed Vahid Tabatabaei (Euskirchen, Germany), Christoph Nitche, Maximilian Michel, Kurt Rasche, Khosro Hekmat

The Effect on Chest Tube Drainage of Postoperative Prophylactic Enoxaparin in Patients with Non-small Cell Lung Cancer

Ferdane Melike Duran (Konya, Turkey), Hıdır Esme, Atilla Can

A comparative study of conventional cytology and cell block method in the diagnosis of malignant pleural effusion.

abdmouleh khouloud (Sfax, Tunisia), Hamdi Besma, Ben Bdira Baraa, Moussa Ines, Ben Jemia Emna, Ammari Sarra, Ammar Jamel, Berraiès Anissa, Hamzaoui Agnés

Limited role of Ki-67 in lung carcinoid tumor patients predicting overall short-term survival, A single institution experience

Bernard Budimir (Zagreb, Croatia), Kristina Krpina, Suzana Kukulj, Gordana Drpa, Lela Bitar, Fran Seiwerth,Blanka Čuk, Ante Marušić, J.Josip Grah, Marko Jakopović, Miroslav Samaržija

Downregulation of Thyroid transcription factor 1 in lung adenocarcinoma: the prognostic impact

Nidia Pestana Caires (Funchal, Portugal), Margarida Castanho, Direndra Hasmucrai, Encarnacao Teixeira, Ana Sofia Vilarica, Paula Alves, Renato Sotto-Mayor

Prognostic and potential therapeutic impact of prostate specific membrane antigen expression in non-small cell lung cancer

Rainer G. Wiewrodt (Münster, Germany), Lars Henning Schmidt, Arik B. Schulze, Birthe Franziska Heitkoetter, Georg Evers, Christoph Schlemann, Konrad Steinestel, Marcel Trautmann, Alessandro Marra, Ludger Hillejen, Eva Wardelmann, Kambiz Rahbar, Dennis Goerlich, Georg Lenz, Wolfgang E. Berdel, Wolfgang Hartmann, Michael Mohr, Sebastian Huss

Is neutrophil/lymphocyte ratio at the time of diagnosis a valuable prognostic factor in non-small cell lung cancer?

Fatma Bodur Yıldırım (Ankara, Turkey), Nursül Sevimli, Murat Türk, Nilügün Yılmaz Demirci, Ahmet Selim Yurdakul, Can Öztürk

Clinical usefulness of natural killer cell activity in patients with non-small cell lung cancer

Kwang Ho In (Seoul, Republic of Korea), Sue In Choi, Seung Hyeun Lee, Sang Yeub Lee

Interleukine-17A implicated in survival outcome of patients with late stage lung adenocarcinoma

Yu-Chen Huang (Taoyuan, Taiwan), CHIH-MING WENG (Taipei City, Taiwan), Hsin-Hua Wang, Hai-Pin Kuo

Cytotoxicity and apoptosis of alveolar lymphocytes (AL) in early clinical stage (I-IIa) of non-small cell lung cancer (NSCLC)

Piotr Kopinski (Bydgoszcz, Poland), Joanna Golinska, Ewa Wypasek, Arkadiusz Goede, Karina Szabolowska, Maciej Gnass, Kamil Brutkowski, Michał Zabczyk, Joanna chorostowska
The significance of T-box transcription factor 5 and CD44s expression in NSCLC: correlation with prognostic markers.
Eleftheria Chaini (Corfu, Greece), Anna Maria Athanassiadou, Angelos Tsipis, Maria Gonidi, Dimitra Haini, Ioannis Giannopoulos, Kyriakos Hainis, Pauline Athanassiadou

Role of carbohydrate metabolism abnormality in non-small cell lung cancer-related immunoparalysis
Zsolt István Komlói (Tarnok, Hungary), Gergő Szűcs, Éva Imre, Mártón Szentkereszti, György Losonczy

Association of tissue inhibitor of metalloproteinases 2 and 3 polymorphisms with non-small cell Lung cancer
Chuen-Ming Shih (Taichung, Taiwan), Yao-Ling Lee

Evaluation of promoter hypermethylation in tissue and blood of non-small cell lung cancer patients and association with survival.
Ashraf Ali (New Delhi (Delhi), India), Kriti Upadhyay, Vinod Kumar Kakaria, Anant Mohan, Wajid Rafi, Kalpana Luthra, Randeep Guleria

The NANCI lncRNA-NKX2-1 gene duplex impacts prognosis in stage I NSCLC.
Jorge Moisés Lafuente (Barcelona, Spain), Alfons Navarro, Sandra Santasusagena, Nuria Vírolas, José Ramírez, Gerard Frigola, Laureano Molins, Joan Josep Castellano, Sara Morales, Carmen Muñoz, Mariano Monzo, Ramón Mariá Marrades

The CYP2A6 gene polymorphism in male Bataknese smoker lung cancer patients and its association with nicotine dependence
Noni Soeroso (Medan, Indonesia), Rozaimah Zain-Hamid, Bintang Ym Sinaga, Ahmad Hamid Sadewa

Expression analysis of miR-223 in plasma of patients with non-small cell lung cancer and other obstructive lung diseases
Dora Marinova (Sofia, Bulgaria), Darina Kachakova, Denitsa Dimitrova, Aleksandar Lilov, Evgeni Mekov, Miroslav Mihailov, Silva Giragosyan, Yanina Slavova, Dimitar Kostadinov, Vanya Youroukova, Rossen Petkov, Atanaska Mitkova, Radka Kaneva, Vanio Mitev

Association of Pre-miR-rs2910164 polymorphism with non-small cell lung cancer in an Iranian population
Esmaeil Mortaz (Tehran, Islamic Republic of Iran), D. Alipour, Adnan Khoenshari, Johan Garssen, Ian Adcock

Comparative gene expression analysis in lung cancer
Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Rafael Larrosa Jiménez, Rocío Bautista Moreno, Josefa Gómez Maldonado, José Luis De La Cruz Rios, Laura González Álvarez, Carmen María López Rodriguez, Manuel Angel Cobo Dols, Manuel Gonzalo Claros Díaz

Evaluation of the Thoracic Revised Cardiac Risk Index as a prognostic factor for survival after lung cancer resection
Teresa Diaz De Teran Lopez (Santander, Spain), Cristina Magadan Álvarez, Kimberley Lee, Pablo Lozano Cuesta, Victoria Maderuelo García, Victor Mora Cuesta, David Iturbe Fernandez, Beatriz Abascal Bolado, Laura Sanchez Moreno

The Khorana score as a predictor of mortality in lung adenocarcinoma
Kostas Syrigos (Athens, Greece), Ioannis Vathiotis, Andriani Charpidou, Paraskevi Boura, Sotirios Tsimpoukis, Eleni Kokkotou, Dimitra Grapsa, Evangelos Dimakakos

Ratio And Regional Distribution Of Genetic Mutation In Lung Cancer In Turkey (REDIGMA)
Yilmaz Bülbül (Trabzon, Turkey), Neslihan Özçelik, Tevfik Ozlu, Nimet Aksel, Yurdunur Erdogan, Filiz Güldaival, Sule Karabelul Gul, Ahmet Bircan, Atilla Can, Necdet Oz, Aysegul Senturk, Sibel Arine, Talat Kilic, Bahar Kurt, Ersin Gunay, Benan Caglayan, Derya Celebi Aydin, Ilknur Basygit, Ismail Savas, Dursun Tatar, Sulhatten Aslan, Berna Komucuroglu, Mehmet Bayram, Inci Gulmez, Omer Tamer Dogan, Elif Yelda Niksarlioglu, Erkan Kaba, Esra Aydin Ozgur

Prognosis of uncommon metastasis in non-small-cell lung cancer patients with mutated EGFR
Akihiro Yoshimura (Kyoto, Japan), Taisuke Tsuji, Chieko Takumi, Ryosuke Hamashima, Shinsuke Shiotzu, Tatsuya Yuba, Noriya Hiraoka
PA2802  Efficacy of Afatinib, Erlotinib, and Gefitinib on epidermal growth factor receptor (EGFR) mutant non-small cell lung cancer (NSCLC) patients with brain metastasis: a network meta-analysis
So-My Koo (Seoul, Republic of Korea), Ki-Up Kim, Yang-Ki Kim, Soo-Taek Uh

PA2803  Comparison of re-biopsy success rates among procedures and sequential changes of EBUS images
Kei Morikawa (Kawasaki (Kanagawa), Japan), Takeo Inoue, Masamichi Mineshita, Teruomi Miyazawa

PA2804  Expression status of PD-L1 in NSCLC correlates with disease extension
Aya Yamamoto (Amagasaki, Japan), Takashi Iwata

PA2805  Expression of PD1, COPD and lung cancer.
Francisco Javier Verdu Rivera (, Spain), Vanesa Cunill Monjo, Maria Isabel Luna Lopez, Valero Andreu Matillas, Amanda Iglesias Coma, Jaime Pons De Ves, Alberto Alonso Fernandez, Francisco De Borja Garcia-Cosio Piquer, Maria Cerda Moncadas, Jaume Sauleda Roig

PA2806  Retrospective analysis of tumor programmed death-ligand 1 expression in transbronchial biopsy samples
Hirofumi Takahashi (Sapporo, Japan), Naofumi Shinagawa, Yutaka Hatanaka, Mamoru Kunisaki, Megumi Furuta, Yuuta Takashima, Tetuaki Shouji, Hidenori Kitai, Hajime Kikuchi, Hidenori Mizugaki, Hajime Asahina, Eiki Kikuchi, Jyunko Kikuchi, Jyun Sakakibara, Yoshihiro Matsuno, Masaharu Nishimura

PA2807  Benefit of immune checkpoint inhibitors (ICIs) for second-line treatment of advanced non-small cell lung cancer (NSCLC) using restricted mean survival time (RMST).
Perrine Créquit (Paris, France), Alexandre Vivot, Raphael Porcher, Jacques Cadranel

PA2808  Hyper-progressive disease in patients with advanced non-small cell lung cancer (NSCLC) treated with nivolumab (niv)
Adrien Costantini (Paris, France), Jennifer Corny, Vincent Fallet, Sophie Renet, Sylvie Friard, Christos Chouaid, Boris Duchemann, Etienne Giroux-Leprieur, Laurent Taillade, Ludovic Doucet, Marina Nguyen, Stephane Jouveshomme, Marie Wislez, Jean Tredaniel, Jacques Cadranel

PA2809  Different Th1 and Th2 cytokine profile in serum and tumor microcirculation of SCLC and NSCLC patients
Marija Karlicic (Beograd, Republic of Serbia), Vukoica Karlicic, Danilo Vojvodic

PA2810  Pleural and systemic cytokine expression profiles in patients with lung cancer
David Betz (Munich, Germany), Rudolf Maria Huber, Diego Kauffmann-Guerrero, Kathrin Kahnert, Sebastian Kobold, Pontus Mertsch, Rosemarie Kiefl, Marina Schaele, Julia Stump, Amanda Tufman

PA2811  Radiographic findings after stereotactic radiotherapy for lung carcinoma: retrospective analysis of 90 patients
Inès Menoux (Strasbourg, France), Delphine Antoni, Nicola Santelmo, Pierre Truntzer, Catherine Schumacher, Aïssam Labani, Georges Noël

PA2812  How to predict fatal pneumonitis in non-small cell lung cancer (NSCLC) patients treated with radiotherapy (RT)
Jaume Bordas Martinez (barcelona, Spain), Cristina Martin Cabeza, Susana Padrones Sanchez, Ramon Palmero Sanchez, Ernest Nadal Alforja, Valentin Navarro Perez, Jordi Dorca Sargatal, Arturo Navarro Martín, Samantha Aso Gonzalez

PA2813  Characteristics of radiation pneumonitis and lung function after curatively intended radiotherapy in non-small cell lung carcinoma
Janna Berg (Porsgrunn, Norway), Ann Rita Halvorsen, Jon Olav Haugstvedt, May-Bente Bengtson, Odd Terje Brustugun, Åslaug Helland

PA2814  Prognosis of non-small-cell lung cancer in patients with idiopathic pulmonary fibrosis
Song Yi Han (Seongnam-si, Gyeonggi-do, Republic of Korea), Youlim Kim, Yeon Joo Lee, Jong Sun Park, Young-Jae Cho, Ho Il Yoon, Jae-Ho Lee, Choon-Taek Lee, Jin-Haeng Chung, Kyung Won Lee, Sang Hoon Lee

PA2815  Pulmonary tuberculosis and lung cancer: simultaneous and sequential occurrence
Berna Kömürçüoğlu (Izmir, Turkey), Aysen Evkan, Gulru Polat, Sevket Dereli

PA2816  Characterization and management of elderly and very elderly patients with non-small cell lung cancer
Vera Cláudia Oliveira Clérigo (Lisboa, Portugal), Direnara Hasmucrai, Encarnação Teixeira, Paula Alves, Ana Vilariça, Renato Sotto-Mayor

PA2817  Prevalence of and risk factors for pulmonary complications after lung cancer surgery in elderly patients with preserved lung function
Yunjoo Im (Seoul, Republic of Korea), Sumin Shin, Sun Hye Shin, Hyun-Il Gil, Hyun Lee, Ho Yun Lee, Jhingook Kim, Hye Yun Park

PA2818  Clinical Features and Treatment Outcome of Carcinomatous Pericarditis due to Lung Cancer.
Yoko Kida (Kobe, Japan), Yusuke Inui, Kouki Sato, Rikiya Koketsu, Toshiyasu Sakurai, Kimihide Tada, Akihiko Ikeda, Kimio Hashimoto, Nobuyuki Katakami
**Session 289 12:50 - 14:40**

**TP-28 Thematic poster: Lung cancer: risk factors, supportive measures and quality improvement**

**Disease(s):** Thoracic oncology, Respiratory critical care

**Method(s):** Respiratory intensive care, Endoscopy and interventional pulmonology, Public health, Epidemiology, General respiratory patient care

**Chairs:** Anna Rich (Nottingham (Nottinghamshire), United Kingdom), Dragana M. Jovanović (Beograd, Republic of Serbia), Wouter H. van Geffen (Leeuwarden, Netherlands), Müge Meltem Tor (İstanbul, Turkey)

### PA2820 Residential radon and lung cancer risk in never smokers in a radon prone area in Spain.

María Torres-Durán (Vigo (Pontevedra), Spain), María Lorenzo González, Isaura Parente Lamelas, Virginia Leiro Fernandez, José Abal Arca, Carmen Montero Martínez, Olalla Castro Anón, Mariano Provencio Pulla, Iria Vidal Garcia, Antonio Golpe Gómez, Cristina Martínez, Roxírys Guzman Taveras, Margarita Amenedo Gancedo, Alberto Fernandez Villar, Juan Miguel Barros Dios, Alberto Ruano Ravina

### PA2821 Prospective association between sedentary lifestyle and incidence of lung cancer in Norwegian adults: the HUNT study

Lin Jiang (Trondheim, Norway), Yi-Qian Sun, Ben Michael Brumpton, Arnulf Langhammer, Yue Chen, Tom Ivar Lund Nilsen, Xiao-Mei Mai

### PA2822 Anemia during lung cancer

Souad Souilah (Alger, Algeria), Nesrine Dermech, Yacine Benbetka, Nassima Djami, Karim Khennouf, Rabah Amrane, Aziza Fissah

### PA2823 Efficacy of iron repletion without erythropoiesis-stimulating agent in patients with chemotherapy-induced anemia in lung cancer

Raja Dhar (Kolkata (West Bengal), India), Shyam Krishnan, Shubham Sharma, Praveen Kumar Shahi, Gourishankar Bhattacharya

### PA2824 Pegfilgrastim drastically lowered risk of febrile neutropenia in Japanese patients with thoracic malignancy receiving chemotherapy - a retrospective single institutional study

Takashi Iwata (Osaka, Japan), Aya Yamamoto

### PA2825 Monitoring changes in quality of life in patients with lung cancer under treatment with chemotherapy and co-administration of zoledronic acid by using specialized questionnaires

Anastasios Kallianos (Athens, Greece), Pavlos Zarogoulidis, Theodora Tsiouda, Aggeliki Rapti, Georgia Trakada, Haidong Huang, Wolfgang Hohenforst-Schmidt, Ioannis Tremmas, Chrysanthi Sardeli, Konstantinos Sapalidis

### PA2826 Music prior to bronchoscopy reduces anxiety in patients with suspected lung cancer

Elisabeth Jeppesen (København, Denmark), Carsten Pedersen, Klaus Larsen, Emil Walsted, Anne Rehl, Julie Ehrenreich, Sascha Schnoor, Vibeke Backer

### PA2827 Gender aspects in quality of life of lung cancer patients

Myriam Koch (Regensburg, Germany), Florian Zeman, Hjermstad Marianne Jensen, Krzysztof Tomaszewski, Iwona Tomaszewska, Kjersti Hornslien, Amelie Harle, Juan Arrarás, Ofir Morag, Cecilia Pompili, Georgios Ioannisidis, Morfo Georgiou, Chiara Navarra, WeiChu Chieh, Colin Johnson, Ajye Himpel, Thomas Bohrer, Annelies Janssens, Dagmara Kulis, Andrew Bottomley, Christian Klaus Joehn Schulz, Michael Koller

### PA2828 Socioeconomic status and lung cancer pathways in southeast London: Friend or Foe?

Amande Heitmann (London, United Kingdom), Priyanka Iyer, Haridha Pandian, Georgia Hardavella

### PA2829 Time in lung cancer diagnosis and its prognostic implication

Ana Mas Esteve (Lleida, Spain), Dinora Polanco Alonso, Sandra Bertran Melines, Gemma Fiero Barrabés, Estefanía Galera Lozano, Asunción Seminario Ruiz, Guillermo Suárez Cuartín, Silvia Gómez Falguera, Manel Vilá Justribó, Ferran Barbé Ila

### PA2830 Diagnosis, treatment and doctor delays in lung cancer patients who had diagnostic fiberoptic bronchoscopy at Pamukkale University Pulmonary Diseases Clinic

Feride Marim (Artvin, Turkey), Sevin Başer Öncel, Binnaz Fatma Evyapın, Hande Şenol

### PA2831 The causes of the delay in diagnosis bronchopulmonary cancer

Ioubra najah (casablanca, Morocco), Wiam Elkhattabi, Hasna Jabri, My Hicham Afif

### PA2832 Delays in treatment decisions from lung cancer multi-disciplinary meetings in two centres in North-West, UK.

Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Thomas Lighburn, Yirong Lum, Sharada Gadur, Steven Nicholas, Syed Mehdi
Quality evaluation of primary care referrals to lung cancer services and their response in South London: Clinical practice in a pragmatic setting.
Deny Tsakri (Plovdiv, Bulgaria), Ahmed Seedat, Nefeli-Loanna Paizi, Richard Turner, Georgia Hardavella

Causes of Hospitalization and Mortality in Lung Cancer Patients
Claudia Gomes Pavao De Matos (Lisboa, Portugal), Vania Sacramento, Margarida Felizardo, Sofia Furtado

Tele-cancer: Reducing time-to-treatment for patients with lung cancer
Ibrahim Arosi (Manchester (Greater Manchester), United Kingdom), Karl Heyes, Vee Sibanda, Ram Sundar

Quality performance indicators in lung cancer: learning and reflecting on mortality data
Georgia Hardavella (London, United Kingdom), Carla Hobart, Richard Turner, Geoffrey Warwick, Lizzie Hadley, Amadea Heitmann, Polly Edmonds

Quality indicators in lung cancer care-review of resection rates in early stage NSCLC (non small cell lung cancer) at King’s
Priyanka Iyer (London, United Kingdom), Amadea Heitmann, Haridha Pandian, Carla Hobart, Georgia Hardavella

When lung cancer was rare: An historical study of prevalence from 1760
Luc Ollivier (Brest, France), Philippe Saliou, Oliver Pradier, Gilles Quéré, Renaud Descourt, André Smolarz, Paul Bore, Karima Cherid, Anne-Sophie Blot, Guillaume Le Bihan, Francois Sassier, Charles Orione, Ulrike Schick, Christophe Roge

**TP-29** Session 290 12:50 - 14:40

**Thematic poster: Lung cancer: from the bench to the bedside**

**Disease(s):** Thoracic oncology

**Method(s):** Cell and molecular biology General respiratory patient care Physiology

**Chairs:** Giulia Maria Stella (Pavia (PV), Italy), Daniela Xhemalaj (Tirana, Albania), Eleftherios Zervas (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany)

**LSC - 2018 - Tumor-derived granulocyte chemotactic protein 2 cooperates with neutrophil proteinase 3 to drive lung adenocarcinoma**
Anne-Sophie Lamort (München, Germany), Stefanie A Weiß (stefanie.weiss@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich), Ioannis Lillis (ioannisllisis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Vasilios Armenis (vasiliosarmenis91@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Kristina A M Arendt (kristina.arendt@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich), Mario Pepe (mario.pepe@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich), Antonio Marazziotis (amarazziotis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Magda Spella (giopanou@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Ioanna Giopanou (giopanou@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Giannoula Ntaliarda (ntaliarda@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Maria Oplopoiou (moplopoiou@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Dieter Jenne (dieter.jenne@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich), Georgios T Stathopoulos (stathopoulos@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich).

**LSC - 2018 - Nuclear factor ??-signalling drives Malignant Pleural Mesothelioma**
Ioanna Giopanou (Rio (Patras), Greece), Dimitris Simoglou (dsimoglou@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Patras), Marina Lianou (marina_lianou@hotmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Patras), Georgios T Stathopoulos (gstathop@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Patras).

**Alteration patterns of tobacco carcinogens in lung adenocarcinoma reveal novel KRAS-addicted candidate oncogenes**
Mario Pepe (München, Germany), Francesco Pelizza, Anne-Sophie Lamort, Nikolaos I Kanellakis, Georgios T Stathopoulos.
PA2842 Depletion of STAT6 suppresses lung cancer progression through regulating M2-macrophage polarization  
Cuiping Fu (, China), Shanqun Li

PA2843 Ghrelin does not influence cancer progression in a lung cancer cell line and mice with lung adenocarcinoma  
Hironobu Tsubouchi (Kiyotake (Miyazaki prefecture), Japan), Ayako Miura, Shigehisa Yanagi, Masamitsu Nakazato

PA2844 The influence of brown adipose tissue on the proliferation and chemosensitivity in non-small cell lung cancer cells  
Armin Frille (Leipzig, Germany), Hartmut Kuhn, Thomas Ebert, Hans-Juergen Seyfarth, Hubert Wirtz

PA2845 The influence of non-small cell lung cancer cells on the expression of adipokines in brown adipose tissue  
Armin Frille (Leipzig, Germany), Hartmut Kuhn, Thomas Ebert, Hans-Juergen Seyfarth, Hubert Wirtz

PA2846 Tissue factor induced tumor vascular infarction in lung cancer  
Rainer G. Wiewrodt (Münster, Germany), Lars Henning Schmidt, Caroline Brand, Janine Stucke-Ring, Saliha Harrach, Christoph Schliemann, Alessandro Marra, Ludger Hillejan, Carsten Mueller-Tidow, Georg Lenz, Eva Wardelmann, Thomas Muley, Esther Herpel, Michael Mohr, Dennis Goerlich, Michael Kreuter, Michael Thomas, Christian Schwoeppe, Wolfgang Hartmann, Wolfgang E. Berdel

PA2847 Micro RNA-21 Targeting PI3K/PTEN/Akt signaling axis regulates multiple biological functions in human lung cancer  
Yonghua Zheng (Shanghai, China), Ding Zhang

PA2848 Specific lung cancer peptides selected by a subtractive 3D cell-phage display technology  
Larissa Prado Maia (Uberlandia, Brazil), Emília Rezende Vaz, Aline Gomes Souza, Rodrigo Miquelanti Melo, Thulio Marquez Cunha, Luiz Ricardo Goulart

PA2849 Analyzing the role of proteasome activator 200 (PA200) in lung cancer  
Vanessa Welk (München, Germany), Thomas Meul, Christina Lukas, Deniz Bölükbas, Ina Koch, Michael Lindner, Silke Meiners

PA2850 Generation of small molecules targeting hypoxia inducible factors  
Yasemin Saygıdeğer (Adana, Turkey), Demet Kahraman, Sedat Ilhan, Tugba Taskin Tok, Eyüp Başaran, Aysegul Iyidogan, Aykul Uren, Elcin Emre, Hasan Bayram

PA2851 Modulation of tumor-microenvironmental factors and cancer growth in co-cultures of fresh human lung tissue and patient-derived cancer cells  
Sebastian Konzok (HANNOVER, Germany), Susann Dehmel, Christian Werno, Peter Braubach, Gregor Warnecke, Patrick Zardo, Danny Jonigk, Olaf Pfennig, Hans-Gerd Fieguth, Bernhard Polzer, Kathrin Weidele, Christoph Klein, Armin Braun, Katherina Sewald

PA2852 Prognostic value of EGFR genotype in EGFR-mutant non-small cell lung cancer  
Kostas Syrigos (Athens, Greece), Ilias Kotteas, Maria Paraskeva, Ioannis Gkirozos, Paraskevi Boura, Sofia Tsagouli, Dimitra Grapsa , Andriani Charpidou

PA2853 Uncommon EGFR mutations of lung adenocarcinoma in one tertiary institution, Korea: clinical characteristics and treatment response to tyrosine kinase inhibitors  
Jung Hyun Chang (Seoul, Republic of Korea), Jeiy Han, Yon Ryu, Jin Hwa Lee

PA2854 Blocking beta adrenergic signaling may be a target for overcoming EGFR TKI resistance.  
Eun Young Heo (Seoul, Republic of Korea), Myungjin Lee, Jung-Kyu Lee, Deog Kyeom Kim, Hee Soon Chung

PA2855 The impact of β-blockers in non–small cell lung cancer patients treated with Epidermal Growth Factor Receptor Kinase Inhibitors, Taiwan NHIRD database study.  
Guin Wei Fan (Taipei, Taiwan), Chun Yu Lin

PA2856 Metformin improves survival in lung cancer patients receiving EGFR-TKIs therapy>  
Ming-Szu Hung (Puzi city, Taiwan), Min-Chun Chuang, Ying-Huang Tsai, Yao-Hsu Yang

PA2857 Association of antiPD1 immunotherapy with immunogenic cell death-inducing chemotherapy in a murine model of squamous cell lung cancer  
Mathilde Jeanvoine (Bonsecours, France), Florian Guisier, Pierre Bohn, Luc Thiberville, Mathieu Salaun

PA2858 Immune Checkpoint Inhibitors-related Interstitial Lung Disease in patients with thoracic tumors: experience of one institution  
Filipa Ramalho Fernandes (Alcanena, Portugal), Teresa Almodovar, Isabel Duarte, Duro Da Costa
**Disease(s):** Thoracic oncology, Respiratory infections, Respiratory critical care, Respiratory infections

**Method(s):** Epidemiology, Surgery, Physiology, Cell and molecular biology, Endoscopy and interventional pulmonology, General respiratory patient care

**Chairs:** Julius P. Janssen (Nijmegen, Netherlands), Mohammed Munavvar (Preston (Lancashire), United Kingdom), Rafa Krenke (Laski, Poland), Sotirios Zarogiannis (Larisa, Greece)

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**PA2859**

5-hydroxymethylcytosine but not MTAP methylation status can stratify malignant pleural mesothelioma based on the lineage of origin

Giulia Maria Stella (Pavia (PV), Italy), Matteo Bosio, Elena Salvaterra, Patrizia Morbini, Michele Zorzetto, Simona Inghilleri, Stefano Tomasselli, Patrizia Mangiarotti, Francesca Datturi, Federica Meloni, Isa Cerveri

**PA2860**

In the era of personalised medicine, is pleural fluid cytology sufficient for oncological treatment?

Rachel Mercer (Guildford (Surrey), United Kingdom), David Mccracken, Rachelle Asciak, Robert Hallifax, Maged Hassan, Eihab Bedawi, Najib Rahman

**PA2861**

Targeting of CSF1R abrogates Lewis Lung adenocarcinoma-induced malignant pleural effusion

Ioannis Kalomenidis (Athens, Greece), Sophia Magkouta, Chrysavgi Kosti, Photene Vaitsi, Apostolos Pappas, Charalampos Moschos, Marianthi Iliopoulou, Katherina Psarra

**PA2862**

Treatment with Anti-VEGF and anti-EGFR in a model of malignant pleural effusion: Genic evaluation

Lisete Ribeiro Teixeira (São Paulo (SP), Brazil), Vanessa Alvarenga, Roberta Sales, Carlos Silva, Nicole Almeida, Lucas Sousa, Ana Santos, Vera Capelozzi, Evaldo Marchi, Milena Acencio

**PA2863**

Role of markers C-Reactive Protein, Procalcitonin and TREM-1 in diagnosis of infection pleural effusion

Lisete Ribeiro Teixeira (São Paulo (SP), Brazil), Vanessa Alvarenga, Milena Acencio, Roberta Sales, Aline Silva, Jucara Silva, Carlos Silva, Evaldo Marchi

**PA2864**

Water and urea transport in benign and malignant pleural mesothelial cells.

Evgeniy Solenov (Novosibirsk, Russian Federation), Alexander Ershov, Galina Baturina, Lubov Katkova, Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis

**PA2865**

ADAM10 membrane-bound protease mediates malignant pleothelioma invasiveness

Didier Cataldo (Liege, Belgium), Christelle Sepult, Marine Bellefroid, Christine Gilles, Andreas Ludwig, Bernard Duysinx, Agnès Noel

**PA2866**

Effects of 2-Deoxy-glucose with Cisplatin-Pemetrexed in mesothelioma sphere formation.

Rajesh Jagirdar (Larissa, Greece), Irini Georgiann, Eleanna Pitaraki, Eleftherios Papazoglou, Chrissy Hatzoglou, Konstandinos Gourgoulianis, Sotirios Zarogiannis

**PA2867**

Cytology, chest computed and positron emission tomography correlations in lung cancer malignant pleural effusion.

Clement Brun (Saint-Etienne, France), Pierre Gay, Michelle Cottier, Georgia Karpathiou, Fabrice-Guy Barral, Jean-Michel Vergnon, Marios E. Froudarakis

**PA2868**

Investigating unilateral pleural effusions: the role of cytology.

David Arnold (Bristol (Avon), United Kingdom), David Arnold (Australia), Duneesh De Fonseka, Siobhan Perry, Andrew Medford, Mary Brett, Nick Maskell

**PA2869**

The use of immunocytochemistry to diagnose the etiology of malignant pleural effusion.

Aleksey Reshetov (St. Petersburg, Russian Federation), Vasily Klimenko, Victor Novik, Oleg Ivanov, Dmitry Ermakov

**PA2870**

Red cell distribution width value as a novel biomarker for exudative pleural fluid.

Akbar Sharifi (Tabriz, Islamic Republic of Iran), Dorraji Amir

**PA2871**

Differences in the pathological patterns of non-specific pleuritis (NSP).

Georgia Karpathiou (Saint-Etienne, France), Sirine Hathroubi, Arnaud Patoir, Olivier Tiffet, Francois Casteillo, Clement Brun, Fabien Forest, Najib M. Rahman, Michel Peoc’H, Marios E. Froudarakis

**PA2872**

Comparison of pleural fluid pH measurements: blood gas analyzer, pH indicator stick, litmus paper, and point-of-care testing for blood gases.

Sang-Ha Kim (Wonju, Republic of Korea), Beomsu Shin, Seok Jeong Lee, Myoung Kyu Lee, Won-Yeon Lee, Suk Joong Yong

**PA2873**

Impact of a pleural pathology unit in a third level hospital.

Ines Ruiz Alvarez (Oviedo, Spain), Francisco Lopez Gonzalez, Ana Isabel Enriquez Rodriguez, Tamara Hermida Valverde, Carmen Osoro Suarez, Julia Herrero Huertas, Andres Ortiz Reyes, Ariel Morena Bernando, Lucia Garcia Alfonso, Perez Casan Clara

**PA2874**

Pericardial and pleural metastases: clinical and histological differences.

Georgia Karpathiou (Saint-Etienne, France), Mousa Mobarki, Sirine Hathroubi, Marie Laure Stachowicz, Arnaud Patoir, Olivier Tiffet, Michel Peoc’H, Marios Froudarakis
Rotation Aiding (RA’s) technique for EBUS-TBNA biopsy of intrathoracic lymph node: a comparison of conventional Jab method
Seung Won Ra (Ulsan, Republic of Korea), Woon Jung Kwon, Yongjik Lee, Chang-Ryul Park, Hee Jeong Cha, Byung Ju Kang, Taeboom Lee, Yangjin Jegal, Jong-Joon Ahn, Youngjoon Chee, Kwang Won Seo

Malignant Mesothelioma (MM) is still the leading cause of death in Karain villagers in Turkey and/or abroad due to erionite exposure
A. Salih Emrî (İstanbul, Turkey), Dorina Esendagli, Michele Carbone

Thematic poster: Clinical management of pleural malignancies, including mesothelioma

Disease(s): Thoracic oncology
Method(s): Epidemiology  Endoscopy and interventional pulmonology  Cell and molecular biology  General respiratory patient care  Imaging  Surgery

Single-center prospective study on clinical evolution of non-specific pleuritis
Federico Mei (Ancona (AN), Italy), Martina Bonifazi, Lina Zuccatosta, Francesca Barbisan, Michele Sedlari, Stefano Gasparini

The clinical benefits of immune checkpoint inhibitors for thymic carcinomas
Naohiro Uchida (kyoto, Japan), Kohei Fujita, Osamu Kanai, Misisato OkaMura, Koichi Nakatani, Tadashi Mio

The Role of PET-CT in differential diagnosis of malignant-paramalignant pleural effusion
Elif Torun Parmaksiz (İstanbul, Turkey), BülEnt Akkurt, CoşKun DoğAñ, Seda Beyhan SağMen, Nesrin KiRal, Sevda CoMêrt, Ali Fidan, Saadet Akkuş

Determinants of survival in patients with malignant pleural mesothelioma (MPM) managed at a single institution in Liguria, Italy
Annamaria Carletti (sarzana (SP), Italy), Lucia Benfatto, Vanna Balestracci, Pier Aldo Canessa

Predictors of pleurodesis success
Rachel Mercer (Guildford (Surrey), United Kingdom), Nicole Speck, Hannah Jeffries, Jessica Macready, Nikolaos Kanellakis, Nick Maskell, Justin Pepperell, Tarek Saba, Alex West, Nabeel Ali, Robert Miller, John Corcoran, Rachelle Asciak, Maged Hassan, Robert Hallifax, Ioannis Psallidas, Najib Rahman

The patient perspective of treatment for Malignant Pleural Effusion (MPE)- results of a pilot service-evaluation questionnaire.
Jack Seymour (Wallingford (Oxfordshire), United Kingdom), Ioannis Psallidas, Melissa Dobson, Najib Rahman

ANALYSIS OF INITIAL NON-CONCLUSIVE THORACOSCOPIES WITH A DIAGNOSIS OF MALIGNANCY OBTAINED DURING LONG-TERM FOLLOW-UP OF RECURRENT EXUDATIVE PLEURAL EFFUSIONS
Beatriz Romero Romero (Sevilla, Spain), Luis Alejandro Padron Fraysse, Beatriz Romero Romero, Francisco Rodriguez Panadero, Jose Martin Juan

Clinical and histological analysis of malignant mesothelioma - a comprehensive state-wide study
Rainer G. Wiewrodt (Münster, Germany), Nicola PferdMenges, Volker Krieg, Arik Bernard Schulze, Hiltraud Kajueter, Georg Evers, Michael Mohr, Lars Henning Schmidt, Hans-Werner Hense, Oliver Heidinger

Iodopovidone pleurodesis, diferent techniques, excellent efficacy in malignant pleural effusion.. Tanta University experience
Ragia Samir Sharshar (Tanta, Egypt)

Is there a need for Vedio-assisted Thoracoscopic surgical (VATS) pleural biopsy following a Medical Thoracoscopy (MT)?
Mohamed Akram Abdulla (Sheffield (South Yorkshire), United Kingdom), John Hadfield, Thida Aung, Ayman El-Nayal

US guided true cut needle biopsy in patients with malignant mesothelioma
Rosen Petkov (Sofia, Bulgaria), Teodora Mihalova, Yordanka Yamakova, Georgi Yankov

Relationship between baseline metabolic 18F-FDG parameters and survival in malignant pleural mesothelioma: A single centre experience
Yusuf Kahya (Ankara, Turkey), Çiğdem Soydal, Mustafa BülEnt Yenigün, Elgin Özkan, Nihal Ata Tutkun, Serkan Enöñ, Nuriye Özlem Kıcûk, Ayten Kay¹ Cangûr
A comparison of outcomes from a regional Mesothelioma MDT against the National Lung Cancer Audit (NLCA) Mesothelioma standards
Maryam Ahmed (Manchester, United Kingdom), Judith Lyons, Susan Jackson, Anna Sharman, Mairead Dixon, Paul Taylor, Jayne Holme, Matthew Evison

Survival of patients with malignant pleural effusions: a three-year prospective self-experience study
Filip Shterev (Plovdiv, Bulgaria), Ivan Novakov, Filip Sterev

Assessing breathlessness following pleural fluid drainage using the Visual Analogue Scale for Dyspnoea (VASD) over 1 week (7-DVQ)
Radhika Banka (Mumbai (Maharashtra), India), Eleanor Mishra

EBUS-TBNA for the diagnosis of intrathoracic lymphadenopathy in patients with previously diagnosed breast carcinoma
Nevenka Piskač Živković (Zagreb, Croatia), Anja Ljljil, Nina Petra Novak, Neven Tudorić

Evaluation of chemotherapy response determined by volumetric method in malignant pleural mesothelioma and its effect on determination to survival
Muzaffer Metintaş (Eskişehir, Turkey), Furkan Urfali, Selma Metintas, Atilda Gurgen, Göünlüül Ak, Ragip Ozkan

Cisplatin/pemetrexed chemotherapy versus palliative care survival in malignant pleural mesothelioma
Emilija Lozo Vukovac (Split, Croatia), Ivan Skopljanc, Ivana Segrt, Kornelija Mise, Anita Tolić Bicinca

Effects of cisplatin and pemetrexed on 3D phenotypes of benign mesothelial and malignant pleural mesothelioma cells
Eleftherios Papazoglou (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitaraki, Ourania Kotsiou, Chrissi Hatzoglou, Konstantinosourgoulghanis, Sotirios Zarogiannis

Late Breaking Abstract - Calpain regulates epithelial-mesenchymal transition and its correlation with Akt signaling in pulmonary fibrosis.
Yuan Liu (China), Bing Liu, Jingfeng Zou, Menglin Zhou, Zhenshun Cheng

Prognostic and functional significance of osteoporosis and vitamin D deficiency in interstitial lung diseases
Vivien Somogyi (Heidelberg, Germany), Carlos Francisco Silva, Simon Triphan, Monika Eichinger, Michael Kreuter

Depression is a predominant symptom among hypogonadism male patients with Interstitial Pulmonary Fibrosis
Doaa Magdy (Assiut, Egypt), Doaa Magdy, ahmed metwally, Randa El Zohne

Validity and responsiveness of the Euro-Qol-5 Dimensions-5 Levels (EQ5D5L) in IPF
Claire M. Nolan (London, United Kingdom), Matthew Maddocks, Toby M Maher, Sarah E Jones, Suhani Patel, Ruth E Barker, Peter M George, William D-C Man

Prevalence and clinical relevance of comorbidities in IPF
Ermanno Puxeddu (Roma (RM), Italy), Luigino Calzetta, Annapina Barrile, Francesco Cavalli, Alfredo Sebastiani, Mario Cazzola, Paola Rogliani

Validation of the King’s Brief Interstitial Lung Disease questionnaire in Danish
Thomas Skovhus Prior (Århus N, Denmark), Ole Hilberg, Surinder Birring, Elisabeth Bendstrup

Vitamin D predicts disease progression in patients with pulmonary fibrosis and blunts in-vitro fibrotic responses
Vasilios Tzilas (Athens, Greece), Argyris Tzouvelekis, Evangelos Bouros, Thodoris Karamptsakos, Sofia Kourtidou, Iliana Barbayianni, Ioanna Ninou, Vasilis Aidinis, Demoshenes Bouros

Diagnosis and therapy of acute exacerbations of idiopathic pulmonary fibrosis (AE-IPF) in Germany
Markus Polke (Heidelberg, Germany), Juergen Behr, Hans-Joachim Kabitz, Claus Neurohr, Gabriela Leuschner, Antje Prasse, Francesco Bonella, Dirk Koschel, Julia Waelscher, Michael Kreuter

Evaluation of Dyspnea Questionnaires in Patients with Idiopathic Pulmonary Fibrosis (IPF).
Onofre Moran Mendoza (Kingston (ON), Canada), Sharina Aldaheri, Sami Alyami, Maxine Kish, Sean Davison
PA2905 Prognostic impact of the pulmonary artery size on chest computed tomography in Idiopathic Pulmonary Fibrosis patients
Ji Soo Choi (Seoul, Republic of Korea), Sung Woo Moon, Se Hyun Kwak, Ju Hye Shin, Song Yee Kim

PA2906 Different characteristics and outcomes of acute exacerbation: comparison between interstitial pneumonia with autoimmune features and idiopathic interstitial pneumonia.
Ryobu Mori (Kobe, Japan), Mariko Kogo, Kazutaka Hosoya, Hayato Kawachi, Ryosuke Hirabayashi, Munehiro Ito, Daichi Fujimoto, Kazuma Nagata, Ryo Tachikawa, Atsushi Nakagawa, Kojiro Otsuka, Keisuke Tomii

PA2907 Modified GAP stage as a predictor of acute exacerbation in idiopathic pulmonary fibrosis
Shinichiro Ohshimo (Hiroshima, Japan), Yoshiko Kida, Michihito Kyo, Yasushi Horimasu, Shintaro Miyamoto, Hiroshi Iwamoto, Hironobu Hamada, Noboru Hattori, Francesco Bonella, Josune Guzman, Ulrich Costabel, Nobuaki Shime

PA2908 Prevalence of cancer in patients with Idiopathic Pulmonary Fibrosis. A retrospective multicenter study

PA2909 Hospitalisation pattern in Interstitial Lung Diseases: a claims data study
Sabine Witt (Neuherberg, Germany), Julia Waelscher, Larissa Schwarzkopf, Michael Kreuter

PA2910 Diaphragm dysfunction in combination with lung function decline is associated with higher mortality in idiopathic pulmonary fibrosis patients
Enikő Bárczi (Budapest, Hungary), Abigel Farkas, Aniko Bohaecs, Krisztina Vincze, Noemi Eszes, Gyorgy Losoneyzy, Veronika Muller

PA2911 Natural history of idiopathic pulmonary fibrosis (IPF) associated with obstructive sleep apnea (OSA) with or without continuous positive airway pressure (CPAP)
Thomas Gille (Bobigny, France), Morgane Didier, Marouane Boubaya, Zohra Carton, Danielle Sadoun-Danino, Dominique Israel-Biet, Vincent Cottin, Frédéric Gagnadoux, Bruno Crestani, Marie-Pia D’Ortho, Pierre-Yves Brillet, Dominique Valeyre, Hilario Nunes, Carole Planès

PA2912 Application of a predictive formula for hypoxic challenge testing in patients with interstitial lung disease
Sunil Patel (London, United Kingdom), Robert A Hastings, Harpreet K Loata, Philip L Molyneaux, Felix Chua, Georgios Magaritopoulos, Vasilis Kouranos, Maria Kokosi, Toby M Maher, Athol U Wells, Peter M George, Elisabetta A Renzoni

PA2913 The role of infection in acute exacerbation of Idiopathic Pulmonary Fibrosis
Dong Weng (Shanghai, China), Huiping Li

PA2914 Does body mass index influence survival of patients with idiopathic pulmonary fibrosis?
Nesrin Mogulkoc (IZMIR, Turkey), Burcu Uysaler, Paul Bishop

PA2915 Comorbid conditions in IPF patients; their frequencies and impacts on survival
Aysu Sinem Koc (Izmir, Turkey), Nesrin Mogulkoc, Paul Bishop

TP-33 Session 294 12:50 - 14:40

Thematic poster: News on the diagnosis of idiopathic interstitial pneumonia

**Disease(s):** Interstitial lung diseases  Airway diseases

**Method(s):** Endoscopy and interventional pulmonology  Surgery  Imaging  Epidemiology  General respiratory patient care  Cell and molecular biology

**Chairs:** Wim A Wuys (Rotselaar, Belgium), Marcel Veltkamp (De Meern, Netherlands), Stéphane Jouneau (Rennes Cedex, France), Irina Ruxandra Strambu (Bucuresti 5, Romania)

**The impact of a network based approach on lung function and symptom duration at diagnosis in idiopathic pulmonary fibrosis**
Taha Lodhi (Cheadle (Cheshire), United Kingdom), Colm Leonard, Pilar Rivera Ortega, Helen Morris, Tracey Marshall, Katherine Zakis, Theresa Garfoot, Conal Hayton, Melanie Greaves, John Blaikley, Nazia Chaudhuri

**Nationwide survey of physicians’ attitude and approach to the clinical evaluation of interstitial lung disease in Singapore**
Felicia Teo (Singapore, Singapore), Gin-Tsen Chai, Su-Ying Low, Chia-Meng Teoh, Tunn-Ren Tay, Maria Kokosi, Chuan-Gee Choo, Sze-Khen Tan, Jessica Tan, Lynette Teo, Yuen-Li Ng, Gregory Kaw, Masashi Takahashi, Wim A Wuys, Felix Chua, Vincent Cottin, Simon L-F Walsh, Yiong-Huak Chan
<table>
<thead>
<tr>
<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2918</td>
<td>Absence of early metabolic response assessed by 18F-FDG PET-CT after initiation of antifibrotic drugs in IPF patients.</td>
<td>Benjamin Bondue (Bruxelles, Belgium), Amelie Castiaux, Gaeten Van Simaey, Celine Mathey, Felicie Sherer, Dominique Egrise, Simon Lacroix, Francois Huaux, Gilles Doumont, Serge Goldman</td>
</tr>
<tr>
<td>PA2919</td>
<td>Multidisciplinary discussion (MDD) in IPF diagnosis: the experience of an Italian Centre</td>
<td>Elena Torricelli (Firenze (FI), Italy), Elisabetta Rosi, Lorenzo Turi, Cinzia Lo Conte, Caterina Piccioli, Emanuele Vivarelli, Paola Parronchi, Chiara Moroni, Alessandra Bindi, Edoardo Caviglio, Maurizio Bartolucci, Valentina Luzzi, Michela Bezzi, Domenico Viggiano, Luca Voltolini, Elena Bargagli</td>
</tr>
<tr>
<td>PA2920</td>
<td>Histopathologic and Molecular Analysis of Idiopathic Pulmonary Fibrosis Lungs from Patients Treated with Pirfenidone or Nintedanib</td>
<td>Yingwei Zhang (Nanjing (Jiangsu), China), Kirk Jones, Natalia Achtar-Zadeh, Jasleen Kukreja, Paul Wolters, Colm Leonard, Stephen J. Fowler</td>
</tr>
<tr>
<td>PA2921</td>
<td>Breath Biomarkers in Idiopathic Pulmonary Fibrosis: A Systematic Review</td>
<td>Conal Hayton (Manchester (Greater Manchester), United Kingdom), Dayle Terrington, Andrew M. Wilson, Nazia Chaudhuri, Felicia Teo, Lynette Teo, Ching Ching Ong, Ju Ee Seet, Tow Keang Lim</td>
</tr>
<tr>
<td>PA2922</td>
<td>Frequency of cough versus dyspnoea as the first recorded symptom of idiopathic pulmonary fibrosis</td>
<td>Rupert Jones (Million Combe, United Kingdom), David Thickett, Jaco Voorham, Ronan Ryan, Robina Coker, Andrew Wilson, Sen Yang, Mandy Ow, Priyanka Raju, Isha Chaudhry, Victoria Carter, David Price</td>
</tr>
<tr>
<td>PA2923</td>
<td>Impact of a Bayesian approach on the diagnosis of Interstitial Lung Diseases</td>
<td>Voon Shiong Ronnie Tan (Singapore, Singapore), Sok Boon Tay, Selena Chua, Lynette Teo, Ching Ching Ong, Ju Ee Seet, Tow Keang Lim</td>
</tr>
<tr>
<td>PA2924</td>
<td>MUC5B gene in a cohort of Lebanese patients with idiopathic pulmonary fibrosis</td>
<td>Georges Dabar (Beyrouth, Lebanon), Zeina Aoun, Moussa Riachi, Jacques Boutrous</td>
</tr>
<tr>
<td>PA2925</td>
<td>Quantitative Assessment of Thoracic Muscles in Patients with Idiopathic Pulmonary Fibrosis: Relationship with Prognosis</td>
<td>Sungwoo moon (Seoul, Republic of Korea), Song Yee Kim, Ji Soo Choi, Se Hyun Kwak, Ju Hye Shin</td>
</tr>
<tr>
<td>PA2926</td>
<td>High-resolution computed tomography fibrosis score and pulmonary function tests in interstitial lung disease: Is there any correlation?</td>
<td>Rana Fessi (tunis, Tunisia), Besma Ourari, Jihan Ahmed, Haifa Zaibi, Salwa Azzabi, Mohamed Ali Baccar, Hichem Aouna</td>
</tr>
<tr>
<td>PA2927</td>
<td>Epithelial alarmin levels in exhaled breath condensate in patients with idiopathic pulmonary fibrosis</td>
<td>Sebastian Majewski (Stryków, Poland), Damian Tworek, Karolina Szewczyk, Zofia Kurbanska, Adam Antczak, Pawel Gorski, Wojciech Piotrowski</td>
</tr>
<tr>
<td>PA2928</td>
<td>Looking for airways peristin in patients with interstitial lung diseases.</td>
<td>Giulia Scioscia (Lucera (FG), Italy), Donato Lacedonia, Piero Socco, Filena Simone, Incoronata Caccavo, Roberto Sabato, Ernesto Giuffreda, Giovanna Elisiana Carpagnano, Maria Pia Foschino Barbaro</td>
</tr>
<tr>
<td>PA2929</td>
<td>Ca 19-9 serum levels in patients with end-stage Idiopathic Pulmonary Fibrosis (IPF)</td>
<td>Elisabetta Balestro (Padova (PD), Italy), Elisabetta Coccocellini, Davide Biondini, Federico Fracasso, Gioele Castelli, Giuseppe Marulli, Federico Rea, Manuela Cosio, Marina Saetta, Paolo Spagnolo</td>
</tr>
<tr>
<td>PA2930</td>
<td>In vivo optical imaging for low-risk microscopic diagnosis of IPF</td>
<td>Lida Hariri (Boston, United States of America), Ashok Muniappan, Colleen Keyes, John Wain, Michael Lanuti, Christopher Morse, Henning Gaisser, Hugh Auchincloss, David Adams, Margit Szabari, Amita Sharma, Thomas Colby, Mari Mino-Kendou, Eugene Mark, Richard Kradin, Hamid Pahlevaninezhad, Hannah Goulart, Lloyd Liang, Andrew Tager, Melissa Suter</td>
</tr>
<tr>
<td>PA2931</td>
<td>Exhaled breath condensate - a new tool for assessment of idiopathic pulmonary fibrosis?</td>
<td>Natalia Przygoda (Warsaw, Poland), Katarzyna Gorska, Magdalena Papińska, Patrycja Nejman-Gryz, Magdalena Proboszcz, Rafal Krenke</td>
</tr>
<tr>
<td>PA2932</td>
<td>A prospective evaluation of lung ultrasonography in patients with fibrotic interstitial lung diseases: preliminary results.</td>
<td>Georgios Pitsidianakis (Heraklion (Crete), Greece), Maria Bolaki, Eirini Vasarmidi, Konstantinos Karagiannis, Katerina Anotniou, Nikolaos Tzanakis</td>
</tr>
<tr>
<td>PA2933</td>
<td>Roles of transthoracic lung ultrasonography in diagnosis of interstitial lung disease: correlation with HRCT, vital capacity, diffusing of the lung for monoxide test</td>
<td>Milena Adina Man (Cluj-Napoca (Cluj), Romania), Adriana Parau, Alina Ruscov, Monica Pop, Ruxandra Rajnovanu, Bianca Domokos Hancu</td>
</tr>
</tbody>
</table>
### Thematic poster: Idiopathic interstitial pneumonias other than idiopathic pulmonary fibrosis (IPF)

<table>
<thead>
<tr>
<th>Session 295</th>
<th>12:50 - 14:40</th>
</tr>
</thead>
</table>

#### Disease(s):
- Interstitial lung diseases
- Respiratory critical care

#### Method(s):
- Public health
- Epidemiology
- Physiology
- Cell and molecular biology
- Transplantation
- Endoscopy and interventional pulmonology
- Imaging
- General respiratory patient care

#### Chairs:
- Tiago Alfaro (Coimbra, Portugal), Martina Vasavakova (Praha 4, Czech Republic), Julie Morisset (Montréal (QC), Canada), Diego Castillo Villegas (Barcelona, Spain)

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA2934</td>
<td>Does delay in review of newly-diagnosed idiopathic pulmonary fibrosis (IPF) worsen outcomes?</td>
<td>Hon Lin Wu (Preston (Lancashire), United Kingdom), James Wingfield-Digby, Timothy Gatheral</td>
</tr>
<tr>
<td>PA2935</td>
<td>Correlation between HRTC appearance and histopathological features in the diagnosis of interstitial lung diseases</td>
<td>Francesco Guerrera (Turin, Italy), Giulia Verri, Paraskevas Lyberis, Paolo Solidoro, Lorena Mercante, Marco Michele Bardessono, Matteo Roffinella, Enrico Ruffini, Pier Luigi Filosso, Caterina Bucca, Alberto Oliaro</td>
</tr>
<tr>
<td>PA2936</td>
<td>Clinical Analysis of Pathologically Diagnosed Cryptogenic Organizing Pneumonia: A 14-year Retrospective Analysis of 176 COP Patients.</td>
<td>Yuan Zhang (Shanghai, China), Nan Li, Huiping Li, Yang Hu, QiuHong Li, Ying Zhou, Li Shen, Fen Zhang, Yiliang Su, Dong Weng</td>
</tr>
<tr>
<td>PA2937</td>
<td>Clinical characteristics of familial Idiopathic Pulmonary Fibrosis (f-IPF) at the University of Giessen Marburg Lung Center.</td>
<td>Ekaterina Krauss (Giessen, Germany), Godja Von Gehrken, Sabine Heinemann, Werner Seeger, Andreas Guenther</td>
</tr>
<tr>
<td>PA2938</td>
<td>Idiopathic interstitial pneumonias: Distinct Characteristics</td>
<td>Rana Fessi (Tunis, Tunisia), Besma Ourari, Jihen Ben Amar, Haifa Zaibi, Salwa Azzabi, Mohamed Ali Baccar, Hichem Aouina</td>
</tr>
<tr>
<td>PA2940</td>
<td>Correlation between pulmonary function tests and HRCT indexes in Idiopathic Pulmonary Fibrosis (IPF) patients</td>
<td>Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Stefano Palmucci, Roberta Rosso, Matteo Schisano, Mauro Pavone, Ada Vancheri, Giuseppina Sardo, Rosalba Iudica, Carlo Vancheri</td>
</tr>
<tr>
<td>PA2941</td>
<td>Prognosis of pulmonary fibrosis with usual interstitial pneumonia pattern in myeloperoxidase anti-neutrophil cytoplasmic autoantibody-related nephritis</td>
<td>Toshikazu Watanabe (Toyoake, Japan), Tomoyuki Minezawa, Yasuhiro Goto, Takuya Okamura, Yosuke Sakakibara, Yoshikazu Niwa, Masamichi Hayashi, Midori Hasegawa, Kazuyoshi Imaizumi</td>
</tr>
<tr>
<td>PA2942</td>
<td>Comparison of clinical characteristics and prognosis in patients with idiopathic pulmonary upper lobe predominant pulmonary fibrosis and idiopathic pulmonary fibrosis</td>
<td>Hirotsugu Ohkubo (Nagoya, Japan), Kensuke Fukumitsu, Satoshi Fukuda, Yoshihiro Kanemitsu, Masaya Takemura, Ken Maeno, Yutaka Ito, Akio Niimi</td>
</tr>
<tr>
<td>PA2943</td>
<td>Telomere length in fibrotic groups of Interstitial Lung Diseases</td>
<td>Ioannis Tomos (Athens (Alimos), Greece), Anna Karakatsani, Effrosyni Manali, Cristina Kottaridi, Aris Spathis, Ioanna Korbila, Lykourgos Kolilekas, Konstantinos Kagouridis, Periklis Foukas, Spyros Pipiris</td>
</tr>
<tr>
<td>PA2944</td>
<td>Macrolides as a potential treatment in organizing pneumonia</td>
<td>Andreia Filipa Fonseca Carriço (Guarda, Portugal), António Morais, Natália Melo, Patrícia Caetano Mota, Susana Guimarães, Conceição Souto Moura, José Miguel Pereira</td>
</tr>
<tr>
<td>PA2945</td>
<td>Lymphocytes in bronchoalveolar lavage fluid might be useful for predicting the prognosis, even in the stable phase of nonspecific interstitial pneumonia</td>
<td>Yukiko Takeno (Yufu, Japan), Kenji Umeki, Kosaku Komiya, Yuko Usagawa, Mari Yamasue, Shin-Ichi Nureki, Masaru Ando, Kazufumi Hiramatsu, Jun-Ichi Kadota</td>
</tr>
</tbody>
</table>
Evaluation of the 4-meter gait speed (4mGS) in patients with interstitial pneumonia: a prospective observational study.

Ryosuke Hirabayashi (Kobe, Japan), Yusuke Takahashi, Kyoсуke Wakata, Kazuma Nagata, Kazutaka Hosoya, Hayato Kawachi, Ryobu Mori, Munehiro Ito, Mariko Kogo, Daichi Fujimoto, Atsushi Nakagawa, Ryo Tachikawa, Kojiro Otsuka, Keisuke Tomii

Diagnostic contribution of EBUS in Interstitial Lung Disease (excluding Sarcoidosis)

Warda Khamis (Rosny-Sous-Bois, France), Damien Basille, Jean-François Bernaudin, Julie Morvan, Michael Soussan, Marianne Auquier, Kim-Anastasia Levand, Pierre-Yves Brillé, Eline Magois, Charles Dayen, Youcef Douadi, Dominique Valeyre, Vincent Joumieux, Hilario Nunes, Olivia Freynet

Histological patterns of resected lung after lung transplant in patients with interstitial lung diseases

Tiago Soares Oliveira Sá (Lisboa, Portugal), Vânia Caldeira, Sara Silva, Nidia Caires, Rita Carvalho, Ricardo Coelho, Alexandra Borba, Eugénia Pinto, Paulo Calvinho, Luisa Semedo, João Cardoso, José Fragata

Prognostic significance of autoantibodies for idiopathic pulmonary fibrosis: a systematic review and meta-analysis

Hiroyuki Kamiya (Perth (WA), Australia), Ogee Panlaqui

Serum progranulin levels in idiopathic pulmonary fibrosis and other interstitial lung diseases

Noémi Eszes (Budapest, Hungary), Péter Horváth, Felix Klinger, Adám Tárnoki, Dávid Tárnoki, Veronika Müller, Anikó Bohács

Nailfold capillaroscopy findings in ILD patients: results from a single centre investigation.

Felix Kühner (Ilshofen, Germany), Oliver Sander, Eda Börner, Thomas Wessendorf, Ulrich Costabel, Francesco Bonella

Impact of an interstitial lung diseases Nurse on the compliance to anti-fibrotic drugs in patients with Idiopathic Pulmonary Fibrosis.

Sharina Aldhaheri (Kingston, Canada), Onofre Moran Mendoza, Lynda Mccarthy

Antifibrotic choice in idiopathic pulmonary fibrosis

Conal Hayton (Manchester (Greater Manchester), United Kingdom), Helen Morris, Tracey Marshall, Katie Zakis, Theresa Garfoot, Pilar Rivera Ortega, Melanie Greaves, Colm Leonard, Nazia Chaudhuri

Predictor factors of mortality in patients with idiopathic pulmonary fibrosis

Aysegül Akçeli Şahin (Istanbul, Turkey), Zuleyha Bingol, Zeki Kilicaslan, Tulin Cagatay, Gulfer Okumus

Composite Physiological Index as predictor of mortality by using IPF-GAP model

Abhishek Gupta (Ajmer (Rajasthan), India), Neeraj Gupta, Ramakant Dixit

Systematic review: In vivo imaging in animal models relevant to drug-induced Interstitial lung disease (DIILD)

Irma Mahmutovic Persson (Lund, Sweden), Karin Von Wachenfeldt, Kashmira Pindoria, Juan A. Delgado-San Martin, Simon Campbell, Michael Haase, Mark Wright, John C. Waterton, Lars E. Olsson

Antioxidant and anti-inflammation effect of GHK-Cu in bleomycin-induced pulmonary fibrosis

Xiaoming Zhou (, China), Gang Hou

Imaging biomarkers of oedema and fibrosis in a rat model of Drug-Induced-ILD

Irma Mahmutovic Persson (Lund, Sweden), Anders ÖRbom, Per-Ola Önnervik, Karin Von Wachenfeldt, Lars E Olsson

Diagnostic value of serum KL-6 in Interstitial Lung Disease: preliminary results from an European cohort.

Paloma Millan Billi (Barcelona, Spain), Iván Castellví, Laura Martinez Martinez, Francisco Aparicio, Tomás Franquet, Oriol Sibila Vidal, Diego Castillo Villegas

Investigating microbial communities in interstitial lung disease by standard culture of bronchoalveolar lavage samples

Madeleine Bangham (London, United Kingdom), Katherine Myall

Levels of YKL-40 in serum and sputum of patients diagnosed with hypersensitivity pneumonitis: A pilot study.

Mº Jesus Cruz Carmona (Barcelona, Spain), Miquel De Homdedeu, Silvia Sanchez-Diez, IñIgo Ojanguren, Chistian Romero-Mesones, Ana Villar, Ferran Morell, Xavier MuñOz
Screening and characterization of activin A inhibitory peptides by phage display technology
Larissa Prado Maia (Uberlandia, Brazil), Victor Alexandre Félix Bastos, Aline Gomes Souza, Patricia Tieme Fujimura, Robinson Sabino Silva, Thulio Marquez Cunha, Larissa Prado Maia, Luiz Ricardo Goulart

Antinuclear antibodies in interstitial lung diseases: Prevalence and predictive factors
Samira Aouadi (Ariana, Tunisia), Najla Ghrairi, Imen Ben Ali, Imen Sahnoun, Sonia Maalej, Sadok Yalaoui, Leila Douik-Elgharbi

Bronchoalveolar lavage in healthy and diseased individuals
Bjoern Frye (Freiburg, Germany), Jonas Schupp, Thomas Köhler, Gernot Zissel, Werner Vach, Joachim Müller-Quernheim

Validation of the ILD-GAP model in a Singapore population
Michelle Kam (Singapore, Singapore), Hui Hua Li, Yi Hern Tan, Su Ying Low

Role of gastroesophageal reflux in interstitial lung disease associated to connective tissue disease.
Verónica Torres Esteche (Montevideo, Uruguay), Carolina Díaz Cuña, Sandra Consani, Fernanda Alonso, Adriana Bérez

Interstitial Pneumonia with Autoimmune Features (IPAF): a single center prospective experience
Gianluca Sambataro (valverde (CT), Italy), Sebastiano Emanuele Torrisi, Ada Vancheri, Mauro Pavone, Roberta Rosso, Matteo Schisano, Claudia Crimi, Domenico Sambataro, Carlo Vancheri

Comparative survival analysis between idiopathic pulmonary fibrosis and chronic hypersensitivity pneumonitis: Retrospective cohort study.
Maria Laura Alberti (Ciudadela, Argentina), Martin Eduardo Fernandez, Leandro Fassola, Fabian Caro, Francisco Paulin

Club cells in histological patterns of interstitial lung diseases
Paul Reynaud (Montpellier, France), Isabelle Serre, Isabelle Vacher, Aurélie Fort, Charlotte Vernisse, Micaela Romagnoli, Gérard Durand, Yann Cabon, Sébastien Bonmart, Anne-Sophie Gamez, Arnaud Bourdin

Progression of Rheumatoid-arthritis associated interstitial lung disease by radiological subtype
Sukhmani Sra (London, United Kingdom), Katherine Myall, Boris Lams, Sangita Agarwal, Alex West

Non Specific Interstitial Pneumonia and features of connective tissue disease: what are the consequences of a different point of view?
Giulia Dei, Alice Biffi, Anna Stainer, Federica De Giacomi, Maria Rosa Pozzi, Paola Favorio, Alberto Pesci

Impulse oscillometry compared to standard lung function testing in patients with idiopathic pulmonary fibrosis
Emil Lind Flensborg (Aarhus C, Denmark)

Change of primary Sjögren’s syndrome-associated interstitial lung disease in computerized tomogram of chest during two years.
Soo-Taek Uh (Seoul, Republic of Korea), Bo Young Lee, So My Koo, Yang Ki Kim, Ki Up Kim, Do Jin Kim

Thematic poster: Clinical aspects of hypersensitivity pneumonitis (HP) and CTD-ILD: diagnosis, monitoring and treatment
Disease(s): Interstitial lung diseases, Respiratory infections, Airway diseases, Thoracic oncology, Respiratory infections
Method(s): Physiology, Surgery, Imaging, Epidemiology, Endoscopy and interventional pulmonology, General respiratory patient care
Chairs: John Mackintosh (Brisbane (QLD), Australia), Maria Kokosi (London, United Kingdom), Yurdagül Üzunhan (Bobigny, France), Dina Visca (Mantova (MN), Italy)

LSC - 2018 - In vivo models of Drug Induced ILD: tools to study and improve drug safety
Irma Mahmutovic Persson (Lund, Sweden), Hanna Falk HåKansson (hanna@trulylabs.com / Truly Labs AB, Medicon Village,Lund), Per-Ola Ønervik (per-ola@trulylabs.com / Truly Labs AB, Medicon Village,Lund), Janne Persson (janne@trulylabs.com / Truly Labs AB, Medicon Village,Lund), Lars E. Olsson (lars.e.olsson@med.lu.se / Department of Translational Medicine, Medical Radiation Physics, Lund University, Malmö Sweden, Malmö), Karin Von Wachenfeldt (karin@trulylabs.com / Truly Labs AB, Medicon Village,Lund)

Association between 4-metre gait speed and isometric knee extension muscle strength in patients with interstitial lung disease
PA2978 Factors predicting response to azathioprine in chronic hypersensitivity pneumonitis – the importance of BAL lymphocytosis
Sara Raimundo (Vila Real, Portugal), Natália Melo, PatriCia Mota, Susana GuimarãEs, Conceiçao Souto Moura, Rui Cunha, José Miguel Pereira, AntôNio Morais

PA2979 Parasympathetic Nervous System withdrawal in patients with Interstitial Lung Disease but not in COPD patients
Katya Rigatto (Porto Alegre (RS), Brazil), Ana Amélia Machado Duarte, Cristiano Mostarda, Paulo José Zimmermann Teixeira

PA2980 Acute exacerbation of ILD: an Indian tertiary centre experience
Jai Mullerpattan (Mumbai (Maharashtra), India), Pankti Sheth, Aditi Joshi, Zarir Udwadia

PA2981 What does bronchoalveolar lavage add to cryobiopsy in interstitial lung disease?
Candela Serra (Barcelona, Spain), Paloma Millan Billi, Virginia Pajares Ruiz, Tomás Franquet Casas, Laura López Vilaró, Cristina Burrel Deicke, Ana Maria Alonso León, Alfonso Torrego Fernandez, Diego Castillo Villegas

PA2982 Usefulness of pulsed cyclophosphamide in Interstitial Lung Disease (ILD)
Chia Wei Kong (SOUTHAMPTON (Hampshire), United Kingdom), Oluwatobi Adeagbo, Robert Hooper, Vanessa Titmuss, Suresh Babu

PA2983 Interstitial lung disease misdiagnosis: a Healthcare Improvement Science (HIS) approach
Radu Adrian Crisan-Dabija (Iasi, Romania), Traian Mihaescu

PA2984 Correlation between lung and joint involvement in patients with rheumatoid arthritis and interstitial lung disease: cross sectional study
Francisco Paulin (Ciudad Autónoma Buenos Aires, Argentina), Maria Laura Alberti, Fabian Matias Caro, Martin Fernandez, Juan Francisco Mercado, Leandro Fassola

PA2985 Positive correlation between sympathetic modulation and peace in patients with interstitial lung disease
Katya Rigatto (Porto Alegre (RS), Brazil), Ana Amélia Machado Duarte, Cristiano Mostarda, Guilherme Watte, Giancarlo Lucchetti, Paulo José Zimmermann Teixeira

PA2986 Connective tissue disease-related interstitial lung disease and lung cancer
Maria Alvarenga Santos (Lisboa, Portugal), Susana Clemente, Margarida Felizardo, Sofia Furtado

PA2987 Joint Rheumatology and Chest Clinic in a District General Hospital
Lauren Bell (Wigan (Lancashire), United Kingdom), Namrata Kewalramani, Ayhan Umar, Gladston Chelliah, Abdul Ashish

PA2988 An audio-imaging approach to measure the degree of severity of patients suffering from DPLD disease
Ashok Mondal (Kharagpur, India), Pouliami Banerjee

PA2989 A case of diffuse alveolar hemorrhage after illegal vaginal injection of hyaluronic acid
Seung Hyeun Lee (Seoul, Republic of Korea), Min Hye Kang, Jung Mi Lee, Seoung Woo Han, Jae Joon Hwang, Yong Suk Jo, Cheon Woong Choi, Myung Jae Park

PA2990 Surgical biopsy results of our patients with diffuse parenchymal lung diseases
Gülfer Okumus (Istanbul, Turkey), Berker Ozkan, Zuleyha Bingol, Melike Ulker, Berivan Karatekin, Esen Kiyani, Zeki Kılıçsalan, Murat Kara, Dilek Yılmazbayhan, Alper Toker

PA2991 Autoimmunity in Interstitial lung diseases: preliminary data from a tertiary center.
Emanuele Vivarelli (Florence, Italy), Gianfranco Vitiello, Francesco Tinghi, Danilo Mandlerino, Boaz Palterer, Elena Torricelli, Elena Bargagli, Elisabetta Ross, Paola Parronchi

PA2992 Revisiting the diagnostic approach of Hypersensitivity Pneumonitis
Ana Luisa Fernandes (Matosinhos, Portugal), Jorge Ferreira, Inês Neves

PA2993 Pifendione as a treatment for asbestos-related lung fibrosis? A retrospective case series
Franziska Rytz (Bern, Switzerland), Alexander Poellinger, Sabina Berezowska, Thomas Geiser, Manuela Funke-Chambour

PA2994 Interventions to improve symptom control and quality of life in patients with interstitial lung disease: a systematic review and meta-analysis
Sandra Baijwah (London, United Kingdom), Jill Colquitt, Emma Loveman, Claudia Bausewein, Howard Almond, Adejoke Oluyase, Athol Wells

PA2995 Clinical features of dermatitis, myositis and severe ILD. Could the AntiSSA / Ro52 antibodies be a diagnostic and prognostic tool for Antisyntatase syndrom?
Paraskevi Kavoura (Athens, Greece), Apostolos Frimas, Prokopis Kithreotis, Christos Bagos, Stefanos Kanellas, Dimitrios Veldeki

ERS 2018 International Congress
DETAILED PROGRAMME
MONDAY 17 SEPTEMBER, 2018
**Thematic poster: Granulomatous disorders: heterogeneous diseases with variable management**

**Disease(s):** Interstitial lung diseases

**Method(s):** Respiratory intensive care  Epidemiology  Imaging  Endoscopy and interventional pulmonology  General respiratory care  Cell and molecular biology

**Chairs:** Robert P. Baughman (Cincinnati, United States of America), Hilario Nunes (Bobigny, France), Diane Bouvry (Bobigny, France), António Morais (Maia, Portugal)

| PA2996 | Late Breaking Abstract - Characteristics of macrophagal formula and cytokine spectrum of the bronchoalveolar lavage fluid in patients with newly diagnosed and those with recurring sarcoidosis of respiratory apparatus. 
Natalia Makaryants (Moscow, Russian Federation), Atajan Ergeshov, Natalia Demyanenko, Larisa Lepkeha, Eugene Shmelev |
| PA2997 | Late Breaking Abstract - Reduced activity of energy-transducing NADH-quinone oxidoreductase (complex I) indicates mitochondrial respiratory chain dysfunction in patients with sarcoidosis. 
Ouraia Kotsiou (Larisa, Greece), Zoe Danil, Eugenios Bouzetos, Helen Panagiotidou, Maria Fouka, Foteini Mali, Fotini Bardaka, Katerina Antoniou, Anna-Maria Psara, Zissis Mamuris, Konstantinos Gourgoulianis, Emily Zifa |
| PA2998 | Retrospective analysis of sarcoidosis characteristics and psychological impact between civilian and military populations. 
Clara Ranc (Clamart, France), Olivier Bylicki, Hervé Le Floch, Wanda Gaspard, Lucie Zhang, Frederic Grassin, Frederic Riviere |
| PA2999 | Spirometry, cardiopulmonary exercise testing and the six-minute walk test results in sarcoidosis patients. 
Atfeh Abedini (Tehran, Islamic Republic of Iran), Arda Kiani, Alireza Esalminejad, Mohsen Shafie Pour, Fatemeh Razavi, Seyyed Reza Seyyedi, Babak Sharif-kashi, Kimia Taghavi |
| PA3000 | Gender and smoking – does it matter for lung function in sarcoidosis? An analysis of large cohort (n=1260) 
Caucasian patients. 
Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros, Stefan Wesolowski |
| PA3002 | Health-related quality of life and health status among patients with sarcoidosis, chronic obstructive pulmonary disease and interstitial lung disease. 
Marina Labor (Zagreb, Croatia), Gordana Pavlisa, Marija Alilovic |
| PA3003 | Exhaled Breath Biomarkers in Sarcoidosis: A Systematic Review 
Dayle Terrington (King's Lynn (Norfolk), United Kingdom), Conal Hayton, Adam Peel, Stephen Fowler, Andrew Wilson |
| PA3004 | The comparative characteristics of mediastinal lymphadenopathies in granulomatous pulmonary diseasesMakaryants N., Lepkeha L., Sivokozov I., Semenova A. Central TB Research Institute, Moscow, Russia 
Natalia Makaryants (Moscow, Russian Federation) |
| PA3005 | Does the peripheral blood neutrophil lymphocyte ratio increase as the stage of sarcoidosis progresses? 
Esin Sonkaya (ISTANBUL, Turkey), Sumeyye Alparslan Bekir, Fatma Ozbaki, Selma Aydoğan Eroğlu, Lale Sertçelik, Dildar Duman, Murat Kavas, Meltem Coşan Açga, Ipek Erdem, Ipek Özmen, Sibel Boğa, Fatma Arman杠杆 Hazar, Tülin Sevim, Hatice Türker, Zülal Karakurt |
| PA3006 | Glucocorticosteroid therapy as predisposing factor for pulmonary sarcoidosis relapse 
Ievgenia Merenkova (Kyiv, Ukraine), Yaroslav Dziublyk, Galyna Gumieniu, Mykola Gumeniu |
| PA3007 | Predictive value of Neutrophil-to-lymphocyte ratio (NLR) and Platelet-to-lymphocyte ratio (PLR) in patients with Sarcoidosis 
Gülistan Karadeniz (Izmir, Turkey), Enver Yalnaz, Fatma Ucsular, Gülru Polat, Görkem Vaysoğlu |
| PA3008 | Monocytes and dendritic cells with hyperinflammatory profile in lungs of sarcoidosis patients. 
Anna Smed-Sörensen (Stockholm, Sweden), Rico Lepzien, Sang Liu, Susanna Kullberg, Anders Ekland, Johan Grunewald |
| PA3009 | Long-term outcomes of rituximab (RTX) therapy in recurrent Granulomatosis with Polyangiitis (GPA) 
Dariusz Gawryluk (Warszawa, Poland), Justyna Fijolek, Elżbieta Wiatr |
| PA3010 | Long-term follow-up of patients with pulmonary sarcoidosis 
Yulia Garmash (Moscow, Russian Federation), Sergey Evgenievich Borisov, Diana Ivanova |
| PA3011 | Evaluation of specific immune complexes in patients with pulmonary sarcoidosis. 
Ulia Zinchenko (St Petersburg, Russian Federation), Anna Starshinova, Michael Filatov, Vladimir Burdakov, Sergey Landa, Nina Denisova, Piotr Yablonskiy |
| PA3012 | Clinical features and prognosis of Chinese sarcoidosis patients. 
Xiaochuan Ma (Beijing, China), Huaping Dai, Chen Wang |
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA3013</td>
<td>Dynamics of the incidence and primary disability of sarcoidosis in Belarus</td>
<td>Halina L Baradzina (Minsk, Belarus)</td>
</tr>
<tr>
<td>PA3014</td>
<td>Sarcoidosis: imagiological findings and their impact on the disease outcome</td>
<td>Margarida Baptista Duarte Barata (Lisboa, Portugal), Ricardo Estêvão Gomes, Carolina Monge, Miguel Lopes, Jorge Soares, José Duarte</td>
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<tr>
<td>PA3015</td>
<td>Psychological impact of diffuse infiltrative lung disease</td>
<td>lobna Loued (MONASTIR, Tunisia), Sonia Toujani, Abir Hedhli, Sana Cheikhrouhou, Yassine Ouahchi, Meriem Mjïd, Samira Merai</td>
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<tr>
<td>PA3016</td>
<td>Autoimmune pulmonary alveolar proteinosis complicated with sarcoidosis: clinical courses and serum levels of anti-GM-CSF autoantibody</td>
<td>Toru Arai (Osaka, Japan), Takahiko Kasai, Akiko Matsumuro, Chikatoshi Sugimoto, Masaki Hirose, Naoko Takeuchi, Kanako Katayama, Masanori Akira, Masanori Kitaichi, Yoshikazu Inoue</td>
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<tr>
<td>PA3017</td>
<td>Neutralizing capacity of autoantibody against GM-CSF in patients with autoimmune pulmonary alveolar proteinosis</td>
<td>Etsuro Yamaguchi (Nagakute (Aichi), Japan), Kenshi Kosaka, Toshiyuki Yonezawa, Hirofumi Shibata, Ayako Matsubara, Toshio Kato, Hiroyuki Tanaka, Norihito Yokoe, Satoru Ito, Akihito Kubo</td>
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<tr>
<td>TP38</td>
<td>Session 299</td>
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<td></td>
<td>Thematic poster: Pitfalls in the diagnosis and management of rare diffuse parenchymal lung diseases (DPLDs)</td>
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<td>Disease(s):</td>
<td>Interstitial lung diseases, Pulmonary vascular diseases</td>
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<td>Method(s):</td>
<td>Endoscopy and interventional pulmonology, Cell and molecular biology, Imaging, Epidemiology, General respiratory patient care</td>
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<tr>
<td>Chairs:</td>
<td>Thomas Wessendorf (Essen, Germany), Paola Faverio (Limbiate (MI), Italy), Phil Molyneaux (London, United Kingdom), Eda Boerner (Essen, Germany)</td>
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<tr>
<td>PA3019</td>
<td>Lung cysts in pulmonary alveolar proteinosis</td>
<td>Maria Kokosi (London, United Kingdom), Peter Saunders, Phil M Molyneaux, Peter M George, George Margaritopoulos, Vasileios Kouranos, Thomas Pickworth, Felix Chua, Toby M Maher, Elizabeth Renzoni, Athol U Wells, Cliff Morgan</td>
</tr>
<tr>
<td>PA3021</td>
<td>Lung involvement associated with anti-NXP2 autoantibodies: a monocentre observational French study</td>
<td>Julien Bermudez (Marseille, France), Benjamin Coulon, Youssef Trigui, Carine Gomez, Jean-Louis Mege, Nathalie Bardin, Martine Reynaud-Gaubert</td>
</tr>
<tr>
<td>PA3022</td>
<td>Genetic interstitial lung disease: an unusual case</td>
<td>Gros Marion (Fontenay sous bois, France), Aïlix De Becdelièvre, Daphne Lehalle, Celine Delestrain, Annick Le Floch, Benoit Funalot, Pascale Fanen, Ralph Epaud</td>
</tr>
<tr>
<td>PA3023</td>
<td>Effect of MUC5B gene polymorphism on survival in a Lebanese population of patients with idiopathic pulmonary fibrosis</td>
<td>Georges Dabar (Beirut, Lebanon), Zeina Aoun, Moussa Riachi, Jacques Boutros, Georges Khayat</td>
</tr>
<tr>
<td>PA3024</td>
<td>Acute eosinophilic pneumonia due to heroin inhalation</td>
<td>Canan Dogan (Izmir, Turkey), Haci Ahmet Bircan</td>
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<tr>
<td>PA3025</td>
<td>Relapse predictive factors of chronic eosinophilic pneumonia</td>
<td>Naoko Takeuchi (Sakai, Japan), Toru Arai, Yumiko Sasaki, Yoshinobu Matsuda, Kanako Katayama, Chikatoshi Sugimoto, Kazunobu Tachibana, Seiji Hayashi, Masanori Akira, Takahiko Kasai, Masanori Kitaichi, Yoshikazu Inoue</td>
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<tr>
<td>PA3026</td>
<td>Eosinophilic Pneumonia Due to Sulphasalazine Use</td>
<td>Sinem Nedime Söküçü (Istanbul, Turkey), Cengiz Özdemir, Özlem Kahya, Seda Tural Özüm</td>
</tr>
<tr>
<td>PA3027</td>
<td>Pulmonary toxicity to mesalazine</td>
<td>Maria Raquel Araújo Pereira (Braga, Portugal), Maria Joao Araújo, Filipa Lemos Aguiar, Joana Vale Lages, Ana Luisa Vieira, Joao Filipe Cruz</td>
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<td>Session 300</td>
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<td><strong>Thematic poster: Pulmonary hypertension: therapy</strong></td>
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<td><strong>Disease(s):</strong> Pulmonary vascular diseases</td>
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<td><strong>Method(s):</strong> Imaging Surgery Epidemiology Physiology Cell and molecular biology General respiratory patient care Transplantation</td>
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<td><strong>Chairs:</strong> Zhi-Cheng Jing (Beijing, China), Jason Weatherald (Calgary (AB), Canada), Horst Olschewski (Graz, Austria), Gérald Simonneau (Le Kremlin-Bicêtre, France)</td>
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<tr>
<th>PA3036</th>
<th>Pharmacokinetic (PK) interaction of fixed-dose combination (FDC) antiretrovirals (ARV) with riociguat (rio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soundos Saleh (Wuppertal, Germany), Edwin Dejesus, Dorina Van Der Mey, Corina Becker, Reiner Frey, Sigrun Unger, Wolfgang Mueck</td>
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<tr>
<th>PA3037</th>
<th>Clinical pharmacokinetic (PK) performance of a ralinepag extended-release (XR) tablet</th>
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<tbody>
<tr>
<td>John Grundy (San Diego, United States of America), Anthony Blackburn, Ed Parsley, Yong Tang, Christopher King, John Adams</td>
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</table>

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<thead>
<tr>
<th>PA3038</th>
<th>Inhaled liposomal iloprost shows high drug encapsulation, extended release profile and potentials of improving patient compliance</th>
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<tbody>
<tr>
<td>Pei Kan (Taipei, Taiwan), Ko-Jie Chen, Chin-Feng Hsu, Yi-Fong Lin</td>
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</table>

<table>
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<tr>
<th>PA3039</th>
<th>Acute response of iloprost inhalation using the Breelib nebulizer in pulmonary arterial hypertension: the Breelib acute study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuel Jonas Richter (Gießen, Germany), Jens Axmann, Ardeschir Ghofrani, Andreas Rieth, Werner Seeger, Khodr Tello, Henning Gall</td>
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</tbody>
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<tr>
<th>PA3041</th>
<th>Urocortin-2 improves right ventricular function and attenuates experimental pulmonary arterial hypertension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal), Pedro Mendes-Ferreira, Diana Santos-Ribeiro, Carolina Maia-Rocha, Luis Pimentel, Cláudia Pinto, Eamon P. Mulvaney, Helen M. Reid, B. Therese Kinsella, François Potus, Sandra Breuils-Bonnet, Miriam T. Rademaker, Steeve Provence, Sebastián Bonnet, Adelino Leite-Moreira, Carmen Brás-Silva</td>
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<tr>
<th>PA3042</th>
<th>Effects on Right Ventricular size and function by Riociguat in Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension (The RIVER Study)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satenik Harutyunova (Heidelberg, Germany), Alberto Maria Marra, Nicola Benjamin, Christina Eichstaedt, Benjamin Egenlaub, Christine Fischer, Henning Gall, Hossein Ardeschir Ghofrani, Michael Halank, Marius Hoepfer, Tobias Lange, Karen Olsson, Ekkehard Grünig</td>
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<tr>
<th>PA3028</th>
<th>Disease characteristics and outcomes in a Swedish cohort of patients with pulmonary fibrosis (PF)</th>
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</thead>
<tbody>
<tr>
<td>Magnus Sköld (Stockholm, Sweden), Karen Bartley, Aaron Levine, Lisen Arnheim-Dahlstrom, Klaus-Uwe Kirchgaessler, Ragnar Linder, Christer Janson, Giovanni Ferrara</td>
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<tr>
<th>PA3029</th>
<th>Transbronchial cryobiopsy in interstitial lung disease</th>
</tr>
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<tr>
<td>Lars Hagmeyer (Haan, Germany), Dirk Theegarten, Marcel Treml, Anja Pietzke-Calcaignile, Simon Dominik Herkenrath, Winfried J. Randerath</td>
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<tr>
<th>PA3030</th>
<th>Prevalence of progressive fibrosing interstitial lung disease</th>
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<tbody>
<tr>
<td>Amy Olson (Denver, United States of America), Nadine Hartmann, Rozsa Schlenker-Herceg, Laura Wallace</td>
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<th>PA3031</th>
<th>Smoking-related interstitial fibrosis (srif): A new entity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth De Freitas Gonzalez (León, Spain), Jesús Villegas Alcázar, Raúl Almeida Cabrera, Carlos Mier Bango, Laura Sierra Herranz, Javier Juan García, Inmaculada Herráez Ortega, Nieves Alonso Orcajo, Silvia García García, Elena Bollo De Miguel</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3032</th>
<th>Atypical presentation of a rare lung condition: axillary and paraspinal lymphadenopathy in a patient with clinical and radiological features of lymphangioleiomatosis (LAM) in own material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ajikumar Kavidasan (London, United Kingdom), Vicky Taylor, Sajid Chaudhry, Rosh Siva, Yogini Raste</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3033</th>
<th>Case of lymphangioleiomyomatosis complicated by severe alveolar hemorrhagic syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxana Fesenko (Moscow, Russian Federation), Svetlana Shwaiko, Zhanna Sheykhh, Oxana Pakliina, Eugene Kulaeva</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3034</th>
<th>False-positive PET-CT scan secondary to interstitial pneumonitis mimicking malignancy in fire eater’s lung</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ayse Baccioglu (Ankara, Turkey), Dilek Eraslan, Sule Halici, Fusun Kalpaklioglu</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3035</th>
<th>The presence of staphylococcal superantigens in nasal swabs and correlation with activity of granulomatosis with polyangiitis (GPA) in own material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Justyna Fijolek (Warszawa, Poland), Elżbieta Wiatr, Violetta Petroniec, Ewa Augustynowicz-Kopec, Michal Bednarek, Dariusz Gawryluk, Magdalena Maria Martusewicz-Boros, Katarzyna Modrzewska, Elżbieta Radzikowska, Kazimierz Roszkowski-Sliz</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3036</th>
<th>Pharmacokinetic (PK) interaction of fixed-dose combination (FDC) antiretrovirals (ARV) with riociguat (rio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soundos Saleh (Wuppertal, Germany), Edwin Dejesus, Dorina Van Der Mey, Corina Becker, Reiner Frey, Sigrun Unger, Wolfgang Mueck</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3037</th>
<th>Clinical pharmacokinetic (PK) performance of a ralinepag extended-release (XR) tablet</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Grundy (San Diego, United States of America), Anthony Blackburn, Ed Parsley, Yong Tang, Christopher King, John Adams</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3038</th>
<th>Inhaled liposomal iloprost shows high drug encapsulation, extended release profile and potentials of improving patient compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pei Kan (Taipei, Taiwan), Ko-Jie Chen, Chin-Feng Hsu, Yi-Fong Lin</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3039</th>
<th>Acute response of iloprost inhalation using the Breelib nebulizer in pulmonary arterial hypertension: the Breelib acute study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuel Jonas Richter (Gießen, Germany), Jens Axmann, Ardeschir Ghofrani, Andreas Rieth, Werner Seeger, Khodr Tello, Henning Gall</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA3041</th>
<th>Urocortin-2 improves right ventricular function and attenuates experimental pulmonary arterial hypertension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal), Pedro Mendes-Ferreira, Diana Santos-Ribeiro, Carolina Maia-Rocha, Luis Pimentel, Cláudia Pinto, Eamon P. Mulvaney, Helen M. Reid, B. Therese Kinsella, François Potus, Sandra Breuils-Bonnet, Miriam T. Rademaker, Steeve Provence, Sebastián Bonnet, Adelino Leite-Moreira, Carmen Brás-Silva</td>
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<thead>
<tr>
<th>PA3042</th>
<th>Effects on Right Ventricular size and function by Riociguat in Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension (The RIVER Study)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satenik Harutyunova (Heidelberg, Germany), Alberto Maria Marra, Nicola Benjamin, Christina Eichstaedt, Benjamin Egenlaub, Christine Fischer, Henning Gall, Hossein Ardeschir Ghofrani, Michael Halank, Marius Hoepfer, Tobias Lange, Karen Olsson, Ekkheard Grünig</td>
<td></td>
</tr>
</tbody>
</table>
PA3043 Interim analysis of pulmonary arterial hypertension (PAH)-targeted background therapy in SPHERE (Selexipag: the usErs dRug rEgistry)
Valerie McLaughlin (Ann Arbor, MI, United States of America), Kelly Chin, Harrison Farber, Kristin Highland, Anna Hennes, Murali Chakinala, Carol Zhao, Mike Keating, Nick H. Kim

PA3044 Impact of treatment strategy in survival of patients with idiopathic pulmonary arterial hypertension. Real world evidence from Spanish National Pulmonary Hypertension Registry (REHAP)
Ana Jaureguiar Oriol (Madrid, Spain), Esther Barbero Herranz, Carlos Andrés Quezada Loaiza, Deisy Barrios Barreto, Antonio Román Broto, Javier Segovia Cubero, Teresa Elías Hernández, Sergio Cadenas Menéndez, Pedro Bedate Díaz, Isabel Blanco Vich, Pilar Escribano Subias

PA3045 Switching to macitentan in pulmonary arterial hypertension
Iraklis Tsagkaris (Athens, Greece), Eleni Vrigkou, Dimitris Konstantonis, Frantzkeska Frantzkeskaki, Athanasius Pappas, Konstantina Ntaï, Eleni Stagaki, Apostolos Ármaganidis, Stylianos Orfanos

PA3046 A single-centre, placebo-controlled, double-blinded, randomized, cross-over study of Iloprost in patients with Eisenmenger syndrome
Heba Nashat (London, United Kingdom), Carl Harries, Lisa Parfitt, Emily Shaw, Aleksander Kempny, Laura C Price, Michael A Gatzoulis, Konstantinos Dimopoulos, Stephen J Wort

PA3047 Differences in the activity of the angiotensin converting enzyme 2 axis in patients with idiopathic pulmonary arterial hypertension and congenital heart defect related pulmonary hypertension
Ricardo Teijeiro Paradis (Mexico City, Mexico), Julio Sandoval Zarrate, Tomas Pulido Zamudio, Nayeli Zayas Hernadnez, Leonardo Del Valle, Felipe Massó, Héctor Gonzalez, Carlos Sisniega, Gustavo Pastelin

PA3048 Cough and airway irritation with inhaled treprostinil does not involve activation of laryngeal reflexes.

PA3049 Acute hemodynamic effects of riociguat in pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension
Manuel Jonas Richter (Gießen, Germany), Adrian Kambakamba, Khodr Tello, Jens Axmam, Henning Gall, Ardeschir Ghorfani, Stefan Guth, Christoph Wiedenroth

PA3050 Efficacy and safety of tadalafil in portopulmonary hypertension
Mitja Jevnikar (Paris, France), Nathan Ebstein, Xavier Jais, Athénaïs Boucly, David Montani, Marc Humbert, Olivier Sitbon, Laurent Savale

PA3051 The effects of a 10-weeks-pulmonary rehabilitation program on exercise performance, muscle strength and quality of life in patients with pulmonary hypertension.
Thomas Koudstaal (Rotterdam, Netherlands), Monique Wapenaar, Dirk Van Ranst, Ruud Beesems, Leon Van Den Toorn, Karin Boomars

PA3052 Clinical efficacy of Macitentan in patients with Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension
Heba Nashat (London, United Kingdom), Rosa Da Costa, Joanna Barbosa, Carl Harries, Aleksander Kempny, Laura C Price, Colm Mc Cabe, Michael A Gatzoulis, Konstantinos Dimopoulos, Stephen J Wort

PA3053 Initial dual oral combination therapy in inoperable chronic thromboembolic pulmonary hypertension (CTEPH)

PA3054 Safety of riociguat for chronic thromboembolic pulmonary hypertension (CTEPH): Interim data from a prospective non-interventional study in Japan
Nobuhito Tanabe (Chiba City, Japan), Takeshi Ogo, Masaru Hatano, Yoichi Tazaki, Toshiyuki Sunaya, Akira Saikawa, Toshiaki Sakaguchi

PA3055 Effects of sildenafil as a bridge therapy for pulmonary endarterectomy in chronic thromboembolic pulmonary hypertension
Shigeumi Fukui (Osaka, Japan), Massimiliano Palazzini, Enrico Gotti, Davide Pacini, Sofia Suarez, Takeshi Ogo, Satoshi Yasuda, Alessandra Manes, Norifumi Nakanishi, Nazzareno Galié

TP-40 Session 301  12:50 - 14:40
Thematic poster: Experimental research in pulmonary hypertension
Disease(s): Pulmonary vascular diseases  |Airway diseases
Method(s): Cell and molecular biology  |Physiology
Chairs: David Montani (Le Kremlin-Bicêtre, France), Frances S. De Man (Amsterdam, Netherlands), Soni Savai Pullamsetti (Bad Nauheim, Germany), Christophe Guignabert (Paris, France)

**Extracellular vesicles derived from mesenchymal stem cells prevent pulmonary vascular dysfunction induced by lipopolysaccharide (LPS).**
Sergio Esquivel-Ruiz (Madrid, Spain), Bianca Barreira, María Álvarez-Fuente, Anthony Gürjian, Pedro Hernández-Hernández, África González-Murillo, Manuel Ramírez-Orellana, María Jesús Del Cerro, Angel Cogolludo, Francisco Pérez-Vizcaino, Laura Moreno

**Common genetic basis for pulmonary arterial hypertension and high altitude pulmonary edema**
Christina Eichstaedt (Heidelberg, Germany), Heimo Mairbäurl, Jie Song, Nicola Benjamin, Christine Fischer, Katrin Hinderhofer, Ekkehard Grünig

**BMPR2 mRNA functioning as competing endogenous RNA in pulmonary arterial hypertension associated with systemic-to-pulmonary shunts**
Kai Ma (Beijing, China), Lei Qi, Hao Zhang, Sen Zhang, Fengpu He, Guanxi Wang, Zicong Feng, Shoujun Li

**Impact of treprostinil on dynamin-related protein 1 (DRP1) and mitochondrial fragmentation in pulmonary arterial hypertension (PAH).**
Jeries Abu-Hanna (London, United Kingdom), Jan-Willem Taanman, David Abraham, Lucie Clapp

**Gene-Gene Interaction between EPAS1 and EGLN1 in Patients with High-Altitude Pulmonary Edema**
Toshimichi Horiuchi (Matsumoto, Japan), Yunden Droma, Fumiya Kinota, Nobumitsu Kobayashi, Masao Ota, Masayuki Hanaoka

**Kv1.5 channels and endothelium-dependent relaxation are downregulated by miR-1 in rat pulmonary arteries.**
Gema Mondejar-Parreño (Madrid, Spain), Maria Callejo, Bianca Barreira, Daniel Morales-Cano, Laura Moreno, Sergio Esquivel-Ruiz, Angel Cogolludo, Francisco Pérez-Vizcaino

**Stabilised ferroportin activity affects pulmonary vascular cells responses: implications for pulmonary hypertension**
Sofia Pedersen (LONDON, United Kingdom), Quezia Toe, S John Wort, Gregory J Quinlan*, Latha Ramakrishnan*

**Activation of the Beta-3 adrenoceptor in experimental pulmonary hypertension**
Pedro Mendes Ferreira (Guimarães, Portugal), Rui Adao, Rozenn Quarc, Catharina Belge, Marion Delcroix, Carmen Bras-Silva

**Pulmonary Hypertension in Female Rats: Estrogens and Age Influence**
Ana Obeso (Valladolid, Spain), Elena Olea, Asuncion Rocher, Ana Jordillo, Angela Gomez-Niño, Jesus Prieto-Lloret

**Leukotriene-mediated sex dimorphism in pulmonary arterial hypertension monocrotaline-induced rat.**
Angela Liparulo (Naples, Italy), Giuseppe Spaziano, Teresa Palmira Russo, Antonietta Rossi, Fiorentina Roviozze, Rosanna Filosa, Manuela Sgambato, Gioia Tartaglione, Renata Esposito, Bruno D’Agostino

**Targeting CCR2 and CCR5 to inhibit macrophage/pulmonary artery smooth muscle cells cross-talk in pulmonary hypertension**
Shariq Abid (Creteil, France), Aurelien Parpaleix, Elisabeth Marcos , Valérie Amsellem, Amal Houssaïni , Marielle Breau , Daigo Sawaki , Emilie Bizard, Marion Delcroix, Rozenn Quarc, Larissa Lipskaïa , Serge Adnot

**Effect of BMPRII on endothelial function in human lung microvascular endothelial cells**
Birger Tielemans (Leuven, Belgium), Rik Gijsbers , Annelies Michiels , Allard Wagenaar , Ricard Farre Martí, Catharina Belge, Marion Delcroix, Rozenn Quarc

**Reduce expression of endothelial nitric oxide synthase lead to more severe pulmonary complex vascular lesions associated with HIV**
Jose Luis Sandoval Gutierrez (México D.F, Mexico), Rosa Maria Rivera Morales, Juan Rodriguez Silverio

**Cold exposure lowered miR-21-5p expression in monocrotaline induced pulmonary artery hypertension.**
Fausto Sanchez Munoz (mexico, Mexico), José Sánchez , Roxana Carbó , Adrián Hernández , Rafael Bojalil , Julio Sandoval , Fausto Sánchez

**Maladaptive Pulmonary vascular responses to chronic intermittent and sustained hypoxia in a rat hypertension model**
Asuncion Rocher Martin (Valladolid, Spain), Jesus Prieto-Lloret, Inmaculada Docio, Elena Olea, Maria Llanos Bravo, Ana Obeso, Angela Gomez-Niño

**The effect of Monoamine oxidase A inhibition on experimentally induced pulmonary arterial hypertension**
Xiao-Qing Sun (Amsterdam, Netherlands), Eva Peters, Ingrid Schalij, Stine Andersen, Denielli Da Silva Goncalves Bos, Anton Vonk-Noordegraaf, Frances S De Man, Willen Van Der Laarse, Harm Jan Bogaard
Thematic poster: Clinical aspects of pulmonary hypertension

### Disease(s):
- Pulmonary vascular diseases
- Respiratory critical care

### Method(s):
- Respiratory intensive care
- Imaging
- Epidemiology
- Physiology
- Cell and molecular biology
- Public health
- General respiratory patient care
- Surgery

### Chairs:
- Laurent Savale (Le Kremlin-Bicêtre, France), Frédéric Lador (Genève 14, Switzerland), Irene Lang (Wien, Austria), Sean Gaine (Dublin, Ireland)

### PA3076
**Identifying chronic thromboembolic pulmonary hypertension (CTEPH) through French national hospital database (PMSI)**
Vincent Cottin (Lyon, France), Simon Teal, Daphné Avot, Laurie Lévy-Bachelot, Carl Baxter, Aurore Palmero, Laura Catella, Stève Bénard, Olivier Sibton

### PA3077
**Clinical characteristics and prognosis in patients with chronic thromboembolic pulmonary hypertension and a psychiatric disorder**
Hiroshi Tajima (Chiba, Japan), Hajime Kasai, Hideki Miwa, Akira Naitou, Toshihiko Sugira, Seiichiro Sakao, Nobuhiro Tanabe, Koichiro Tatsunami

### PA3078
**Prevalence of chronic thromboembolic pulmonary hypertension (CTEPH) in patients after pulmonary embolism**
Valentina Dimitrova (Varna, Bulgaria), Diana Petkova, Velin Stratov, Tanya Dobreva

### PA3079
**Good outcomes following elective lower limb orthopaedic surgery in patients with pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension**
Mikaela Ming (Sheffield, United Kingdom), Amanda Nair, Sarah Saunders, Robin Condliffe, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Robert Lewis, Iain Armstrong, Paul Sephton, Iain Hamilton, Robert Kerry, David Kiely

### PA3080
**Anomalous pulmonary venous drainage (APVD) in patients with suspected pulmonary hypertension (PH)**
Robert Lewis (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Christopher Johns, Judith Hurdman, Neil Hamilton, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Jim Wild, Andrew Swift, David Kiely, Robin Condliffe

### PA3081
**Survival in portopulmonary hypertension (PoPH) in the era of modern PAH-targeted therapy**
Laurent Savale (Le Kremlin-Bicêtre, France), Nathan Ebstein, Mitja Jevnikar, Xavier Jaïs, Florence Parent, Athanasios Boucly, Gerald Simonneau, David Montani, Marc Humbert, Olivier Sibton

### PA3082
**Real world data from hospital episode statistics can be used to determine patients at risk of idiopathic pulmonary arterial hypertension**
David Kiely (Sheffield (South Yorkshire), United Kingdom), Allan Lawrie, Orla Doyle, Valentina Salvatelli, Flora Daniels, Edmund Drage, Harvey Jenner, John Rigg, Claude Schmitt, Yevgeniy Samyshkin, Rito Bergemann

### PA3083
**Possible pathophysiologic role of vitamin D deficit in pulmonary arterial hypertension**
Maria Callejo (Madrid, Spain), Daniel Morales-Cano, Gema Mondejar-Parreño, Bianca Barreira, Sergio Esquivel-Ruiz, Laura Moreno, Pilar Escribano, Isabel Blanco, Joan Albert Barbera, Angel Cogolludo, Francisco Perez-Vizcaino

### PA3084
**PEGASUS - the effects of commercial air travel on patients suffering from pulmonary hypertension - a prospective multicenter, multinational study**
Henning Gall (Gießen, Germany), Lukas Becker, Jan Grimminger, Manuel Jonas Richter, Natascha Sommer, Khodr Tello, Werner Seeger, Hans Klose, Silvia Ulrich, Michael Halank, Christian Opitz, Ekkehard Gruenig, Ardeschir Ghofrani

### PA3085
**Assessing the financial impact of pulmonary hypertension: a survey by the UK Pulmonary Hypertension Association (PHA-UK)**
Iain Armstrong (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Shaun Clayton, Janelle Yorke, Carl Harries, David Kiely
The phenotype of the Adult Mexican Patient with Pulmonary Arterial Hypertension: Baseline characteristics of the REMEHIP Registry. The REMEHIP Investigators.
Julio Sandoval Zárate (México D.F, Mexico), Tomás Pulido Zamudio, Carlos Jerjes Sanchez Z Diaz, Alicia Ramirez, Miguel Beltran, Mario Seoane, Juan Francisco Moreno, Pedro Gutiérrez-Fajardo, Jose Javier Elizalde, Guillermo Cueto, Humberto García, Rodolfo Parra

Ventricular mass index predicts mortality in incident patients with PAH
Catherine Simpson (Baltimore, United States of America), Rachel Damico, Stephen C. Mathai, Todd Kolb, Rubina Khair, Stefan Zimmerman, Paul M. Hassoun

Cancer incidence in incident patients with precapillary pulmonary hypertension.
Elodie Bravos (Vienne, France), Vincent Cottin, Claire Dauphin, Hélène Bouvaist, Julie Traclet, Romain Trésorier, Souad Bezzeghoud, Kais Ahmad, Sandrine Accassat, Elodie De Magalhaes, Jean-François Mornex, Christophe Pison, Laurent Bertoletti

Determinants and prognostic value of kidney disease in pulmonary arterial hypertension
Vincent Cottin (Lyon, France), Laurent Bitker, Florence Sens, Cecile Payet, SéGolènë Turquier, Julie Traclet, Kais Ahmad, Sabrina Zeghmar, Jean-BransOis Mornex, Antoine Duclos, Laurent Juillard

Pulmonary Hypertension in Hemodialysis Patients
Mohamed Abdelghany (Assiut, Egypt), Ahmad Bahie, Walaa Hosny

Critical care admissions in patients with pulmonary arterial hypertension.
Laura Price (London, United Kingdom), Colm McCabe, Sophie Herbert, Tc Aw, David Alexander, Susanna Price, Stephan Ledot, Aleksander Kempny, Carl Harries, John Wort, Konstantinos Dimopoulos

EARLIER: End tidal carbon dioxide for earlier detection of pulmonary hypertension
Henning Gall (Gießen, Germany), Sophie Herbst, Manuel Richter, Natascha Sommer, Khodr Tello, Werner Seeger, Ardeschir Ghofrani

Capillaroscopic findings in patients with pulmonary arterial hypertension
Liliana Bonola (Ciudad de México, Mexico), Julio Sandoval, Tomás Pulido, Nayeli Zayas

Cirrhose cardiaque in pulmonary hypertension- a case series.
Marianne Lerche (Leipzig, Germany), Armin Frille, Hubert Wirtz, Johannes Wiegand, Volker Keim, Thomas Karlas, Sophie Tegelkamp, Hans- Jürgen Seyfarth

Screening for pulmonary arteriovenous malformations in hereditary haemorrhagic telangiectasia in the French national reference centre
Victor Margelidon-Cozzolino (Lyon, France), ChahéRa Khouatra, Kais Ahmad, Julie Traclet, Nader Chebib, Sophie Dupuis-Girod, Vincent Cottin

10 years’ experience of referral of ILD patients with Suspected PH to a National PH Service: Demographics and Outcomes
S. John Wort (London, United Kingdom), Simon Bax, Joseph Jacobs, Vasilis Kouranos, Charlene Bredy, Konstantinos Dimopoulos, Aleksander Kempny, Simon Walsh, Arjun Nair, Maria Kokosi, Gregory Kier, Elisabeta Renzoni, Felix Chua, Peter George, Colm Mccabe, Michael Wilde, Arnie Devaraj, Athol Wells, Laura Price*

Multi-institutional prospective registry in pulmonary hypertension associated with respiratory disease in Japan.
Nobuhiro Tanabe (Chiba City, Japan), Hiraku Kumamaru, Yuichi Tamura, Hiroyuki Taniguchi, Noriaki Emoto, Yoshitoh Yamada, Osamau Nishiyama, Ichizo Tsuchi, Hiroshi Kuraishi, Hiroshi Kimura, Yoshikazu Inoue, Yoshihito Morio, Yasuto Nakatsumi, Toru Sato, Masayuki Hanaoka, Tomohiro Hando, Mitsuhiro Sumitani, Kei Kusaka, Yoshimaru Nishimura, Fumio Sakamaki, Masaru Hatano, Hiromi Matsubara, Kazuhiko Nakayama, Tomoki Kimura, Seiichiro Sakao, Masaharu Nishimura, Hiroaki Miyata, Koichiro Tatsumi
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3099</td>
<td>Pulmonary hypertension in patients with idiopathic pulmonary fibrosis and combined pulmonary fibrosis and emphysema: hemodynamic severity</td>
<td>Maria Laura Graziani (Roma (RM), Italy), Martine Reynaud-Gaubert, Emmanuel Gomez, Julie Traclet, Kais Ahmad, Emmanuel Bergot, Laurent Bertolletti, Boubo Camara, Dominique Israël-Biet, Xavier Jaïs, Lize Kikouama-Maleka, Sylvain Marchand-Adam, David Montani, Anna Nieves, Hilario Nunes, Fabrice Piegay, Lidwine Wemeau-Sterninou, Virginie Zarza, Stéphanie Polazzi, Anne-Marie Schott-Pethelaz, Sabrina Zeghmara, Mouhamad Nasser, Vincent Cottin</td>
</tr>
<tr>
<td>PA3100</td>
<td>Pulmonary hypertension in hypersensitivity pneumonitis.</td>
<td>Adrien Tornyos (Graz, Austria), Martin Trinker, Vasile Foris, Susanne Pfeiffer, Balazs Odler, Philipp Douschan, Alexander Avian, Andreas Letten, Andrea Olschewski, Gabor Kovacs, Horst Olschewski</td>
</tr>
<tr>
<td>PA3101</td>
<td>Sildenafil in Patients with Severe Group 3 Pulmonary Hypertension</td>
<td>Laura Price (London, United Kingdom), Aleksander Kempny, Colm McCabe, Kostantinos Dimopoulous, Jalpa Kotecha, Carl Harries, Joana Barbosa, Nick Hopkinson, Anita Simonds, Athol Wells, John Wort</td>
</tr>
<tr>
<td>PA3102</td>
<td>Borderline pulmonary hypertension is associated with exercise intolerance and increased risk for acute exacerbation in patients with interstitial lung disease</td>
<td>Mitsunobu Ito (Naka-gun (Ibaraki), Japan), Kenji Nemoto, Shuji Oh-Ishi, Takeshi Yamamoto, Yuya Koshiishi, Akira Ito, Tetsuro Shiraishi, Joichi Yamazaki, Shinji Inamura, Tatsuya Akiiyama, Takefumi Saito, Shimao Fukai</td>
</tr>
<tr>
<td>PA3103</td>
<td>Diagnostic accuracy of echocardiography in pulmonary hypertension due to interstitial lung disease</td>
<td>Henning Gall (Gießen, Germany), Charlotte Heinze, Manuel Richter, Natascha Sommer, Khodr Tello, Hossein Ardeschir Ghofrani, Werner Seeger</td>
</tr>
<tr>
<td>PA3104</td>
<td>Role of quantitative computed tomography in patients with severe precapillary pulmonary hypertension</td>
<td>Florence Coste (Bordeaux, France), Ilyes Benlala, Gael Dournes, Claire Dromer, Elodie Blanchard, Francois Laurent, Patrick Berger</td>
</tr>
<tr>
<td>PA3105</td>
<td>CT Based Arterial and Venous Morphologic Changes In Pulmonary Hypertension Associated with COPD</td>
<td>Franck Rahaghi (Weston, United States of America), Farbod Rahaghi, Vivian Paz, Pietro Nardelli, James Ross, Raúl San José Estépar, George Washko</td>
</tr>
<tr>
<td>PA3106</td>
<td>Potential role of inflammatory factors in Sleep Apnea Hypopnea Syndrome associated pulmonary hypertension</td>
<td>Jin Zhang (Yinchuan (Ningxia), China), Shaojin Wang, Peng Zhang</td>
</tr>
<tr>
<td>PA3107</td>
<td>Association of pulmonary hypertension with sleep apnea in highlanders</td>
<td>Talantbek Sooronbaev (Bishkek, Kyrgyzstan), Michael Furian, Maamed Mademilov, Bermet Estebesova, Batyr Osmonov, Nuriddin Marajapov, Ulan Sheralaev, Philipp M Scheiwiller, Mona Lichtblau, Stephanie Saxer, Patrick R Bader, Thierry Rochat, Silvia Ulrich, Konrad E Bloch</td>
</tr>
<tr>
<td>PA3108</td>
<td>Pulmonary arterial pressure predicts nocturnal hypoxemia in CTEPH patients.</td>
<td>Catharina Belge (Leuven, Belgium), Dries Testelmans, Bertien Buyse, Marion Delcroix</td>
</tr>
<tr>
<td>PA3109</td>
<td>HIGH RATE OF SLEEP DISTURBANCE ABNORMALITIES IN A STABLE PULMONARY HYPERTENSION COHORT</td>
<td>Vanina Giovini (Ciudad Autónoma Buenos Aires, Argentina), Mariano Mazzei, Nicolas Atamañuk, Diego Liteuka, Nogueira Facundo</td>
</tr>
<tr>
<td>PA3110</td>
<td>Effect of e-cigarette vapour extraction on vasoactive gene expression in human pulmonary artery smooth muscle and endothelial cells.</td>
<td>Abdullah Alqarni (Nottingham (Nottinghamshire), United Kingdom), Oliver Brand, Alice Pasini, Mohammed Alshehri, Linhua Pang</td>
</tr>
<tr>
<td>PA3111</td>
<td>Right ventricular tissue doppler echocardiography in pulmonary hypertension</td>
<td>Susanne Pfeiffer (Graz, Austria), Alexander Avian, Philipp Douschan, Vasile Foris, Andrea Olschewski, Horst Olschewski, Gabor Kovacs</td>
</tr>
<tr>
<td>PA3112</td>
<td>NT-proBNP variation in stable pulmonary arterial hypertension patients.</td>
<td>Ines Furtado (Vila do Conde, Portugal), Célia Cruz, Ana Vigário, Sandra Correia, Luísa Carvalho, Fabienne Gonçalves, Mário Santos, Abílio Reis</td>
</tr>
<tr>
<td>PA3113</td>
<td>Evaluation of the Validity and Reliability of the Turkish Translation of the Emphasis-10 Questionnaire In Patients with Pulmonary Hypertension</td>
<td>Pinar Odeoğlu (Istanbul, Turkey), Rengin Demir, Gülfüer Okumuş, Serdar Kıyıkçıoğlu, Gökşen Kuran Aslan</td>
</tr>
<tr>
<td>PA3114</td>
<td>The Post-Embolic Syndrome: Right Ventricular Post-injury Dysfunction?</td>
<td>Cristina Sanchez Vieco (Vitoria-Gasteiz, Spain), Jose Luis Lobo-Beristain, Angel Alonso-Gómez, Agustina Rivas-Guerrero, Julia Amaranta Garcia-Fuertes, Raquel Cobos-Campos, Remedios Otero-Candeleria, Grupo Osiris</td>
</tr>
</tbody>
</table>
TP-43  Session 304  12:50 - 14:40

Thematic poster: Diagnosis, prognostication and treatment of pulmonary embolism

Disease(s): Pulmonary vascular diseases, Respiratory critical care, Airway diseases

Method(s): Imaging, Epidemiology, Respiratory intensive care, General respiratory patient care

Chairs: Olivier Sanchez (Paris, France), David Jiménez Castro (Madrid, Spain), Francis Couturaud (Brest, France), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

PA3115 Effects of suramin on cardiopulmonary capacity and pulmonary venous contraction in pulmonary arterial hypertension
Marisol Barros (Santiago, Chile), Marcelo Fonseca, Mauricio Henriquez

PA3116 Multiorgan ultrasonography for the diagnosis of pulmonary embolism
Rosen Petkov (Sofia, Bulgaria), Nedelina Kurtelova, Yordanka Yamakova, Evgeni Mekov

PA3117 Non-Contrast Chest CT Scans In Detection Of Pulmonary Thromboembolism
Lamia Shaaban (Assiut, Egypt), Moustafa H M Othman, Hazem Abozaid, Nefisa D Mohamed

PA3118 Can age-adjusted D-dimer be used to decrease the CTPA burden in a general hospital?
Julian Cassar (Balzan, Malta), Kyra Bartolo, Christine Cannataci, Christopher Zammit, Joelle Azzopardi, Paula Grech, Gabriel Borg, Brendan Caruana Montaldo

PA3119 High « red cell distribution width » levels can predict pulmonary embolism risk in multiple trauma patients: a case control study.
Syrine Chouchane (Sousse, Tunisia), Mohamed Kahloul, Chawki Jebali, Marwa Chaabani, Sana Aissa, Mohamed Aymen Jaouadi, Habiba Ben Hamada, Mohamed Said Nakhli, Walid Naija

PA3120 The value of on-admission serum Sodium level on 30-day outcome in acute pulmonary embolism
elnaz firooozehi (tehran, Islamic Republic of Iran), Neda Faraji, Hamidreza Abtahi, Soheil Peiman

PA3121 Pulmonary Embolism: central vs. peripheral - different presentations and different outcomes?
Filipa De Castro Lima (Póvoa de Varzim, Portugal), Nuno China Pereira, Carla Ribeiro, Eloisa Silva, Manuela Vanzeller, Teresa Shiang

PA3122 Rivaroxaban versus low-molecular-weight heparin for venous thromboembolism in gastrointestinal and procteartobiliary cancer
Jang ho Lee (Seoul, Republic of Korea), Jae Seung Lee

PA3123 Use and results of fibrinolysis in pulmonary embolism. Experience in a tertiary hospital.
Ana Torrens Vilar (Valencia, Spain), Alberto Garcia Ortega, Marcos Prado Barragan, Raquel Lopez Reyes

PA3124 Factors affecting recurrence and bleeding complications in patients with venous thromboembolism
Yasemin Ates (İstanbul, Turkey), Züleyha Bingöl, Gülfer Okumuş, Orhan Arseven

PA3125 Recurrence and bleeding in the extended treatment of patients with pulmonary embolism (PE) and cancer
Letizia Marconi (Pisa (PI), Italy), Valentina Foci, Marco Lazzaretti, Antonio Palla

PA3126 Massive and sub-massive pulmonary embolism (PE) long-term follow up data: Is there a need for dedicated PE clinics?
Abdullah Abbasi (Stoke on trent, United Kingdom), Muhammad Ganaie, Sannan Irshad, Syeda Adil, Mohammed Haris, Muhammad Iqbal

PA3127 Epidemiology of Pediatric Pulmonary Embolism in Slovenia, 2006-2016.
Paola Pascolo (Trieste (TS), Italy), Nika Morgan, Marina Praprotnik, Barbara Faganel KOTNik, Matija Kozak, Bojana Pinter, Uros Krivec

PA3128 Clinical characteristics and outcome of patients with Behçet’s Disease and thrombosis
Serhat Erol (Ankara, Turkey), Hasan Hasanazade, Fatma Ciftci, Ahmet Onur Dastan, Aydin Ciledag, Banu Eris Gulbay, Akin Kaya, Gokhan Celik, Turan Acicin

PA3129 Hughes-Stovin syndrome, a rare cause of thrombosis and pulmonary artery aneurysm: a case report
Selma Yalçın (Ankara, Turkey), Emine Bahar Kurt, Cem İşler, Kerem Ensarioğlu

PA3130 Pulmonary onset and complications of intravenous drug users infective endocarditis
Alex A. Demin (Novosibirsk, Russian Federation), Vera Drobysheva

TP-44  Session 305  12:50 - 14:40

Thematic poster: Medical education via the web and the internet
### Disease(s):
- Respiratory infections
- Respiratory critical care
- Airway diseases
- Thoracic oncology
- Interstitial lung diseases

### Method(s):
- Endoscopy and interventional pulmonology
- Respiratory intensive care
- Epidemiology
- Public health
- General respiratory patient care

### Chairs:
Robert Primhak (Sheffield (South Yorkshire), United Kingdom), Stylianos Loukides (Athens, Greece), Frank W.J.M. Smeenk (Eindhoven, Netherlands), Chad Jackson (United States of America)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3132</td>
<td>Conceptualization of the clinical diagnosis components for digital coding in structured electronic data-bases of phthisiopulmonology.</td>
<td>Tatyana Lugovkina (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Tulkova, Serge Skornyakov, Igor Medvinsky, Evgeniy Egorov</td>
</tr>
<tr>
<td>PA3133</td>
<td>Recognising Excellence in Respiratory Medicine</td>
<td>Rachel Jones (Bristol (Avon), United Kingdom), Shelley Barnes, Kathryn Bateman</td>
</tr>
<tr>
<td>PA3134</td>
<td>Development of an online resource to support paediatric asthma management: <a href="http://www.beatasthma.co.uk">www.beatasthma.co.uk</a></td>
<td>Jennifer Townshend (Newcastle Upon Tyne (Tyne and Wear), United Kingdom), Louise Hayes, Sally Hails, Austin Toombs, Madeline Balaam</td>
</tr>
<tr>
<td>PA3135</td>
<td>How to teach anesthesiologists and intensivists to perform bronchoscopy? Three years experience with practically directed workshops in the Czech Republic</td>
<td>Hana Bartáková (Praha, Czech Republic), Michal Otahal, Vaclav Baca, Jiri Votruba</td>
</tr>
<tr>
<td>PA3136</td>
<td>Assessment of physicians and undergraduates in COPD: ASCO-2 study</td>
<td>Karyna Gasynova (Dnipro, Ukraine), Roman Bontsevich, Olga Kompaniets, Galina Batisheva, Olga Cherenkova, Tatiana Shagieva, Elena Luchchina, Alexandr Leonov, Alina Chernykh, Alina Leonova, Kristina Shchurovskaia, Alina Mikhno, Tatyana Pokrovskaja</td>
</tr>
<tr>
<td>PA3137</td>
<td>The effect of an asthma awareness campaign on social media users.</td>
<td>Helmy Haja Mydin (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Sundari Ampikaipakan, Shahid Shaya, M.R. Partridge</td>
</tr>
<tr>
<td>PA3138</td>
<td>Can bronchoscopy be made safer through team-based Simulation?</td>
<td>James Tonkin (London, United Kingdom), Yee-Ean Ong</td>
</tr>
<tr>
<td>PA3139</td>
<td>Asthma care pathway</td>
<td>Christine Rolland (Boulogne-Billancourt, France), Marc Sapène</td>
</tr>
<tr>
<td>PA3140</td>
<td>The impact of a dedicated multidisciplinary social media team at a national critical care conference</td>
<td>Rachael Moses (North Shields (Tyne and Wear), United Kingdom), Aoife Abbey, Nitin Arora, Rob Cronin, Steve Mathieu, Ganesh Suntharalingam, Jamie Strachan, Tanj Sanghera, Jonathan Downham</td>
</tr>
<tr>
<td>PA3141</td>
<td>Comparison of COPD Management Practices with Expert Recommendations among Pulmonologists and Primary Care Providers</td>
<td>Edward Jackson (New York, United States of America), Keith Johnson, Shari Dermer, Fernando Martinez</td>
</tr>
<tr>
<td>PA3142</td>
<td>Assessment of Severe Asthma Management Practices among Pulmonologists and Allergists</td>
<td>Edward Jackson (New York, United States of America), Keith Johnson, Shari Dermer, Reynold Panettieri</td>
</tr>
<tr>
<td>PA3143</td>
<td>Engaging people at highest risk of an asthma attack</td>
<td>Samantha Walker (London, United Kingdom), Catherine Broadbent, Simon Christmas</td>
</tr>
<tr>
<td>PA3144</td>
<td>Patient-reported side effects of oral corticosteroids</td>
<td>Samantha Walker (London, United Kingdom), Catherine Broadbent, Paul Pfeffer, Liz Steed</td>
</tr>
<tr>
<td>PA3145</td>
<td>Simulation skill labs to support informal caregivers who care for patients requiring mechanical ventilation at home</td>
<td>Milko Zanini, Annamaria Bagusiano, Giuseppe Aleo, Gianluca Catania, Loredana Sasso</td>
</tr>
<tr>
<td>PA3146</td>
<td>Do medical and nursing students know correct use of Inhalers? Results of UPSIDE India study</td>
<td>Madhuragauri Shevade (Pune (Maharashtra), India), Ashwini Dhmal, Monica Barne, Sapna Madas, Sushma Jadhav, Jyoti Londhe, Baishakhi Ghosh, Noopur Hedawoo, Dilip Kadam, Sushant Meshram, Ajay Chandanwale, Sandhya Khadse, Sundeep Salvi</td>
</tr>
<tr>
<td>PA3147</td>
<td>Diffuse panbronchiolitis is not restricted to east asia - A mini literature review</td>
<td>Ram Mishra (Thane (Maharashtra), India)</td>
</tr>
<tr>
<td>PA3148</td>
<td>Systems approach to improving safety with intercostal chest drains (ICD)</td>
<td>Burhan Khan (Dartford (Kent), United Kingdom)</td>
</tr>
</tbody>
</table>
Training programme on Pediatric Asthma: What is the impact of a 1 day training programme in improving level of knowledge about Asthma amongst practicing pediatricians in India?
Madhuragauri Shevade (Pune (Maharashtra), India), Monica Barne, Noopur Hedawoo, Nisha Kale, Sapna Madas, Sundeep Salvi

Thematic poster: COPD, asthma and tuberculosis: benefits related to therapy costs

Disease(s): Sleep and breathing disorders, Airway diseases, Respiratory infections, Thoracic oncology, Respiratory infections
Method(s): Surgery, Endoscopy and interventional pulmonology, Epidemiology, Public health, General respiratory patient care
Chairs: Robab Breyer-Kohansal (Wien, Austria), Manuel Kastner (Linz, Austria), Torben Sigsgaard (Århus, Denmark), Maud Koopman (Maastricht, Netherlands)

Late Breaking Abstract - Assessing epidemiology and costs of asthma and COPD in Switzerland with health insurance data
Marion Schmidt (Winterthur, Switzerland), Beatrice Brunner, Simon Wieser, Roland Rapold, Eva Blozik

Cost analysis of FeNO for asthma diagnosis in primary care in Germany.
Christian Ernst (Stuttgart, Germany), Anna Dick, Sandra Wegner, Tanja Wollensak

Identifying predictors of healthcare utilization and costs in COPD patients over 18 months: first longitudinal results of the COSYCONET cohort
Johanna Lutter (Neuherberg, Germany), Danalyn Byng, Rolf Holle, Rudolf A. JöRres, Annika Karch, Stefan Karrasch, Holger Schulz, Claus F. Vogelmeier, Margarethte E. Wacker

Cost-effectiveness of the fixed-dose combination tiotropium + olodaterol based on the DYNAGITO trial results
Martine Hoogendoorn (Rotterdam, Netherlands), Isaac Corro Ramos, Michael Baldwin, Laura Luciani, Cecile Fabron, Bruno Detournay, Maureen Rutten-Van Mölken

Cost-effectiveness of a single inhaler triple therapy versus ICS/LABA in COPD
Alan A. Martin (Uxbridge (Middlesex), United Kingdom), Dhvani Shah, Emma C Goodall, Melanie Schroeder, Nancy Risebrough, Keringo Ndirangu, Afisi S Ismaila

Impact of once-daily single inhaler triple therapy on healthcare resource utilization and associated costs in COPD patients in Spain
Laura Atienza (Tres Cantos, Madrid, Spain), Nicole Benjamin, Melanie Schroeder, Laura Amanda Vallejo-Aparicio, Chandrodoy Biswas, Dhvani Shah, Afisi S. Ismaila

Patient preference for COPD treatment inhalers: A Discrete Choice Experiment (DCE) in France – Results of a Pilot Study
Laura Luciani (Paris, France), Christos Chouaid, Nicola Germain, Gérard De Pouvourville, Samuel Aballéa, Daria Korchagina, Mike Baldwin, Katell Le Lay, Philippe Devillier

Costs of COPD exacerbations in a general population.
Marta Erdal (Bergen, Norway), Ane Johannessen, Tomas Mikal Eagan, Per Bakke, Amund Gulsvik, Jan Erik Askildsen, Rune Gromseth

Reducing plastic waste, carbon footprint and cost: inhaler recycling at Musgrove Park Hospital
Alexandra Dipper (Bristol (Avon), United Kingdom), Louise Anning, Antony Zorzi, Lauren Thrush, Theresa Schulz, Daniel Higbee, Prateek Nalwaya, Alexander Maidwell-Smith, Justin Pepperell

Direct/Indirect costs and QoL in Greek patients with COPD and Bronchial Asthma
Konstantinos Zarogoulidis (Thessaloniki, Greece), Vasiliki Zarogoulidou, Malamatenia Arvanitidou-Vagiona, Despoina Papakosta, Theodoros Kontakiotis, Despoina Ioannidou, Maria Mavroudi, Paul Zarogoulidis, Konstantinos Porpodis, Michail Siarkos

An audit of supplemental oxygen prescribing practices in an inpatient setting and its financial burden.
Sridesh Nath (Brooklyn, United States of America), Sarath Nath, Shweta Kumar, Fei Yang Liang, Christian Abraham, Naila Shereen, Jason Green, Miguel Ramirez, Aaliya Burza, Patrick Geraghty

Household expenditure for tuberculosis care, its determinants and coping strategies among adults 18 years and older of Karachi, Pakistan.
Shama Razzaq (Karachi, Pakistan), Aysha Zahidie, Zafar Fatmi

Cost-utility analysis of a Home-based disease management intervention for patients with severe COPD in the COMET study.
Denis GRANADOS (Gentilly, France), Jean Bourbeau, Isabelle Durand-Zaleski, Stéphane Roze, Romain Kessler
### Session 307
**13:00 - 14:30**

**Lunchtime session: New biologics for asthma: which patients, which agents, which results, at what cost?**

**Aims:** Multiple biological agents have recently become available for treating asthma and are being heavily promoted by industry. The translational scientist views them as biologically informative tools, while the clinician views them as new ways to help difficult-to-treat patients. These different views lead to important questions that this session seeks to answer. They include, but are not limited to, How do these agents exert their effects? What do we really know about these treatments and how should they be used in clinical practice? How are the available agents similar and different? Which side effects should be closely monitored? Do these treatments modify the “natural course” of asthma? Are these treatments worth their cost?

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, General respiratory patient care, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Patient, Physiologist, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/ Clinician

**Chairs:** Jeffrey Drazen (Boston, United States of America), Klaus F. Rabe (Grosshansdorf, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>The basic science behind asthma biologies</td>
<td>Sally Wenzel (Pittsburgh, United States of America)</td>
</tr>
<tr>
<td>13:20</td>
<td>At the interface: the translational science supporting the clinical use of anti-cytokine therapy</td>
<td>Elisabeth H.D. Bel (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>13:40</td>
<td>Real-world experience with new asthma treatments</td>
<td>Roland Buhl (Mainz, Germany)</td>
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<tr>
<td>14:00</td>
<td>Panel discussion: including a patient with asthma being treated with new biologics</td>
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</tbody>
</table>

### Session 308
**13:00 - 14:15**

**Assembly members' meeting: Assembly 1 Clinical**

**Chairs:** Felix J.F. Herth (Heidelberg, Germany), Venéroni Poletti (Forlí, Italy)

### Session 309
**13:00 - 14:15**

**Assembly members' meeting: Assembly 5 Airway diseases**

**Chairs:** Antonio Spadaro (Milan, Italy), Omar S. Usmani (London, United Kingdom)

### Session 310
**13:00 - 14:15**

**Lungs on fire: Airway Diseases & Respiratory Infections**
Aims:
• Study real challenging clinical cases
• Learn and exchange ideas with a panel of respiratory experts
• Discuss the various diagnosis and treatment options

Disease(s):
- Airway diseases
- Respiratory infections

Tag(s):
- Clinical

Target audience:
Adult pulmonologist/Clinician, Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiotherapist, Radiologist, Physiologist, Thoracic oncologist, Trainee

Chairs:
Christophe Pison (Grenoble, France), Vito Brusasco (Genova (GE), Italy), Gernot G.U. Rohde (Frankfurt am Main, Germany), Mario Cazzola (Roma (RM), Italy)

Session facilitator introduction
Michael Tamm (Basel, Switzerland)

Case 1 - Author: F.S. Albez (Erzurum, Turkey)
Case 2 - Author: A.F. Elbehairy (Alexandria, Egypt)
Case 3 - Author: F. Cemmi (Peschiera del Garda, Italy)
Case 4 - Author: D. Siopi (Thessaloniki, Greece)
Case 5 - Author: L. Appendini (Saluzzo, Italy)
Case 6 - Author: C. Tirelli (Vaiano Cremasco, Italy)

7.3M  Session 311  13:00 - 14:15
Assembly members' meeting: Assembly 7 Paediatrics
Chairs: Jonathan Grigg (London, United Kingdom), Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

7.3O  Session 312  13:00 - 14:15
Assembly members' meeting: Assembly 6 Epidemiology and Environment
Chairs: Christer Janson (Uppsala, Sweden), Charlotte Suppli Ulrik (Virum, Denmark)

7.3P  Session 313  13:00 - 14:15
Assembly members' meeting: Assembly 3 Basic and translational sciences
Chairs: Pieter S. Hiemstra (Leiden, Netherlands), Catherine Greene (Dublin, Ireland)

7.2B  Session 314  13:00 - 14:15
Lungs on fire: Paediatric Respiratory Diseases
Aims:
• Study real challenging clinical cases
• Learn and exchange ideas with a panel of respiratory experts
• Discuss the various diagnosis and treatment options

Disease(s):
- Paediatric respiratory diseases

Tag(s):
- Clinical

Target audience:
Paediatrician, Allergist, General practitioner, Lung function technologist, Nurse, Physiotherapist, Radiologist, Physiologist, Thoracic oncologist, Trainee

Chairs:
Fabio Midulla (Roma (RM), Italy), Monika Gappa (Wesel, Germany), Alexander Möller (Zürich, Switzerland), Louise Fleming (London, United Kingdom)

Session facilitator introduction
Jürg Hammer (Basel, Switzerland)

Case 1 - Author: R. Commondoor (Bangalore, India)
Case 2 - Author: N. Nathan (Paris, France)
Case 3 - Author: M. Diaconu (Sheffield, United Kingdom)
Case 4 - Author: C.L.H. Brackel (Voorburg, the Netherlands)
7.3J Session 316  13:00 - 14:30
Patient forum: Occupational lung disease – professional and patient perspectives

Aims: Occupational lung disease remains an important and challenging area in terms of diagnosis, treatment and policy. Featuring experts from primary and specialist care alongside patients who formerly worked in sandblasting and engineering, this session will explore key themes around lung health in the workplace including:

• Prevention - how can workers be better informed and protected from the risks?
• Poor detection of occupational lung disease – why is occupational lung disease often missed, what is the impact, and what needs to change?
• Diagnostic techniques
• Management of occupational lung disease and disability
• What is the impact of having a lung condition at work, particularly when caused by your job? What needs to change to improve awareness of lung health in the workplace?

Chairs: Rafael E. de la Hoz (New York, United States of America)

13:00 Introduction
Rafael E. de la Hoz (New York, United States of America)

13:15 Initial questions/comments from the audience
Rafael E. de la Hoz (New York, United States of America)

13:25 Professor Metin Akgün and Bego (Abdulhalim) Demir
Metin Akgün (Erzurum, Turkey), Abdulhalim Demir (, Turkey)

13:45 Professor David Fishwick and David Batchelor
David Fishwick (Sheffield (South Yorkshire), United Kingdom), David Batchelor (Leicester, United Kingdom)

14:05 Final Q&A from the audience
Rafael E. de la Hoz (New York, United States of America)

13:15-14:30 INDUSTRY PRACTICAL WORKSHOP
SEE PAGE 1

7.3A Session 333  14:45 - 16:45
Hot topics: Chronic pulmonary aspergillosis: from guidelines to real-life implementation
Based on ERS/ECMID guidelines

Aims: At the conclusion of this hot topic session, the participant will: (i) understand the spectrum of chronic pulmonary aspergillosis (CPA); (ii) be able to diagnose CPA on the basis of the recent ERS/ECMID guidelines, which focus on a combination of clinical, radiological and mycological characteristics; (iii) be aware of the consensus regarding the management and treatment of CPA; and (iv) feel encouraged to collaborate with CPA net to promote clinically oriented research in the field of CPA.

Disease(s): Respiratory infections
Method(s): General respiratory patient care  Imaging  Surgery
Tag(s): Clinical
Target audience: Allergist, Critical/Intensive care physician, Pathologist, Patient, Radiologist, Student, Thoracic surgeon, Adult pulmonologist/Clinician

Chairs: Jacques Cadranel (Paris Cedex 20, France), David W. Denning (Manchester (Greater Manchester), United Kingdom)

14:45 The global burden of CPA
Helmut J. F. Salzer (Linz, Germany)

15:15 An update on CPA diagnosis
Iain Page (Manchester (Greater Manchester), United Kingdom)

15:45 Achieving consensus regarding the current treatment options for CPA
Cendrine Godet (Poitiers, France)

16:15 Radiology in CPA: from diagnosis to treatment
Francois Laurent (Bordeaux, France)
Session 334  14:45 - 16:45

Symposium: Imaging chronic lung diseases: moving from structure to function

Lung imaging

Aims: to provide an update regarding lung imaging techniques and their clinical applications in several chronic lung diseases; to increase understanding about the role of imaging in disease detection, stratification and prognostication; and to describe the advantages and limitations of lung imaging in clinical investigation.

Disease(s): Airway diseases Interstitial lung diseases

Method(s): Imaging

Target audience: Clinical researcher, General practitioner, Paediatrician, Radiologist, Student, Trainee, Adult pulmonologist/Clinician

Chairs: Aleksandar Grgic (Homburg, Germany), Maren Schuhmann (Heidelberg, Germany)

14:45  Interstitial disease - more than meets the eye
Jens Vogel-Claussen (Hanover, Germany)  3244

15:15  Chronic obstructive pulmonary disease - moving from structure to function
Grace Parraga (London (ON), Canada)  3245

15:45  Asthma imaging - not just bronchoconstriction
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)  3246

16:15  Cystic fibrosis and bronchiectasis - from visual scoring to new imaging analysis systems
Harm Tiddens (Rotterdam, Netherlands)  3247

Session 335  14:45 - 16:45

Guidelines session: Idiopathic pulmonary fibrosis diagnosis: new guidelines

Results of the ATS-ERS Guidelines on Idiopathic pulmonary fibrosis

Aims: (i) To describe the methodology that was used to develop the new ATS/ERS clinical practice guidelines for diagnosing idiopathic pulmonary fibrosis (IPF); (ii) to discuss how to perform high-resolution CT (HRCT) in usual interstitial pneumonia and to describe its imaging pattern on HRCT; (iii) to describe the histopathological pattern of interstitial pneumonia; and (iv) to discuss the recommended diagnostic approach to IPF, with a particular focus on the important role of multidisciplinary discussions. Areas that require further attention will be discussed throughout the session.

Disease(s): Interstitial lung diseases Respiratory critical care

Method(s): Endoscopy and interventional pulmonology Imaging Public health

Target audience: Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Ganesh Raghu (Seattle, United States of America), Luca Richeldi (Roma, Italy), Venerino Poletti (Forli, Italy)

14:45  Objectives and methodology used to develop the 2018 IPF diagnostic guidelines
Luca Richeldi (Roma, Italy)  3248

14:55  HRCT chest: technique and pattern of usual interstitial pneumonia
Martine Remy-Jardin (Lille, France)  3249

15:20  Histopathological pattern of usual interstitial pneumonia
William Travis (New York, United States of America)  3250

15:45  Recommendations for specific diagnostic interventions
Ganesh Raghu (Seattle, United States of America)  3251

16:15  Panel discussion

Session 336  14:45 - 16:45

Symposium: Advances in community-acquired pneumonia management

Aims: to provide an update on the management tools and therapies for community-acquired pneumonia (CAP).
### Session 337

**14:45 Diagnosing CAP – advances in imaging**
Yann-Erick Claessens (Monaco, Monaco)

**15:15 Management - much more than antibiotics only (adjuvant therapies including antimicrobials, fluid resuscitation, blood sugar and nutrition)**
Gernot G.U. Rohde (Frankfurt am Main, Germany)

**15:45 Severe CAP - challenges in the intensive care unit**
Ignacio Martin-Loeches (Dublin 8, Ireland)

**16:15 When is it time to call the thoracic surgeon?**
Kalliopi Athanassiadi (Athens, Greece)

### Session 338

**7.3C Symposium: Microbiomes in respiratory disease**

**Aims:**
To provide a state-of-the-art update that will inform respiratory researchers, clinicians and health professionals about the role of microbiomes in respiratory disease. Leading experts in the field will review the current research and provide perspectives and opinions regarding the role of the microbiome in both disease pathogenesis and protection from disease. The intergenerational transmission of the microbiome and its effects will also be discussed. In addition, the therapeutic potential of manipulation of local and systemic microbiomes will be described.

### Session 337 Hot topics: Roles of innate lymphoid cells in asthma

**Aims:**
To highlight some recent and important discoveries in innate lymphoid cell biology that provide new insights in the pathological mechanisms in asthma and that hint at future treatment possibilities.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Cell and molecular biology, Physiology

**Tag(s):** Basic science

**Target audience:** Allergist, Clinical researcher, Paediatrician, Physiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Cezmi A. Akdis (Davos, Switzerland), William Busse (Madison, United States of America)

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**14:45 Prostaglandin E2 suppresses the function of human group 2 innate lymphoid cells**
Jenny Mjöberg (Stockholm, Sweden)

**15:15 Steroid resistance of airway type 2 innate lymphoid cells from patients with severe asthma: the role of thymic stromal lymphopoietin**
Rafeul Alam (Denver, United States of America)

**15:45 Allergen-experienced group 2 innate lymphoid cells acquire memory-like properties and enhance allergic lung inflammation**
Fumio Takei (Vancouver, Canada)

**16:15 Human CD40 ligand-expressing type 3 innate lymphoid cells induce interleukin (IL)-10-producing immature transitional regulatory B-cells**
Zsolt István Komlósi (Tarnok, Hungary)
**Session 339**

**Oral presentation: New methods for diagnosing and treating lung diseases**

**Disease(s):** Respiratory infections, Airway diseases, Interstitial lung diseases, Respiratory infections  
**Method(s):** Imaging, Surgery, Physiology, Epidemiology, Cell and molecular biology, General respiratory patient care  
**Chairs:** Alfredo Chetta (Parma (PR), Italy), Philippe Camus (Dijon, France)

**OA3265** Late Breaking Abstract - Use of mepolizumab in bronchiectasis with underlying eosinophilic condition  
Jessica Rademacher (Hannover, Germany), Stefanie Konwert, Jan Fuge, Tobias Welte, Felix C. Ringshausen

**OA3266** Does the sonographic presence and severity of pleural fluid septation have an impact on clinical outcomes in pleural infection? - Data from the Pleural Infection Longitudinal Outcome Study (PILOT)  
John Corcoran (Oxford, United Kingdom), Ioannis Psallidas, Stephen Gerry, Nick Maskell, Robert Miller, Najib Rahman

**OA3267** Proinflammatory cytokine IL-6 detection in severe COPD patients: Focus on roflumilast  
Iryna Savelikhina (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Kseniia Ostrovskya, Mariana Kulynych-Miskiv, Oleksandr Varunkiv

**OA3268** To the diagnosis of primary ciliary dyskinesia without situs inversus  
Vyacheslav Kobyljansky (Moscow, Russian Federation), Elena Bragina

**OA3269** The development and validation of a Quality of Life questionnaire for those with Inducible Laryngeal Obstruction  
Lucy Bassil (Bedford (Bedfordshire), United Kingdom), Nicola Pargeter, Jodie Fellows, Catherine Maskell, Ruth Howard, Adel Mansur

**OA3270** An extensive bundle of tests is needed to detect treatable causes of bronchiectasis (Bx)  
Elisa Franceschi (Milano (MI), Italy), Stefano Aliberti, Manuela Seia, Luigi Porcaro, Vera Bianchi, Enza Consalvo, Angelo Corsico, Ilaria Ferrarotti, Michele Gaffuri, Luca Roncoroni, Barbara Vigone, Andrea Gramenga, Martina Contarini, Francesco Amati, Noemi Borsa, Fabrizio Nava, Nicolò Vanoni, Angela Bellofiore, Cesare Del Monaco, Leonardo Terranova, Martina Oriano, Lisa Cariani, Flavio Capioli, Mario Nosotti, Francesco Blasi

**OA3271** High flow nasal cannula use on respiratory inpatients: Identifying patient groups and outcomes to guide optimal future use.  
Thomas Nicholson (Oxford (Oxfordshire), United Kingdom), Louise Channon, Harriet Williams, Mitra Shahidi

**OA3272** Physiological mechanisms of exertional dyspnea relief following bariatric surgery for severe obesity  
Amar Mainra (Montréal (QC), Canada), Sara Abdallah, Ryan Reid, Ross Andersen, Dennis Jensen

**Session 340**

**Oral presentation: Molecular mechanisms and treatment of pulmonary hypertension**

**Disease(s):** Pulmonary vascular diseases, Interstitial lung diseases  
**Method(s):** General respiratory patient care, Physiology, Cell and molecular biology  
**Chairs:** Christophe Guignabert (Paris, France), Chair to be confirmed

**OA3273** Late Breaking Abstract - MIF inhibition in a murine model of bleomycin-induced lung fibrosis  
Sven Günther (Le Kremlin-Bicêtre, France), Thong Hua, Carole Nicco, Amélie Cumont, Raphaël Thuillet, Ly Tu, Jennifer Bordenave, Thomas Guilbert, Frédéric Batteux, Marc Humbert, Christophe Guignabert, Anh-Tuan Dinh-Xuan

**OA3274** Late Breaking Abstract - NGF induces pulmonary arterial hyperreactivity through increased connexin-43 expression: potential role in pulmonary hypertension  
Veronique Freund-Michel (Bordeaux Cedex, France), Matthieu Douard, Paul Robillard, Juliette Deweirdt, Isabelle Baudrimont, Mathilde Dubois, Roger Martian, Jean-Pierre Savineau, Bernard Muller, Christelle Guibert
OA3275 Late Breaking Abstract - Molecular mechanisms involved in early stage of pulmonary hypertension: experimental study
Francis Pacagnelli (Santo Anastácio, Brazil), Ana Paula Freire, Ana Karenina Sabela, Sarah Cury, Robson Carvalho, Thaon Mariano, Yudney Motta, Antônio Cicogna, Katsuki Osaki

OA3276 Late Breaking Abstract - Chronic Hypoxia Promotes Pulmonary Venous Smooth Muscle Cells Proliferation by Upregulating Calcium Sensing Receptor
Gongyong Peng (Guangzhou (Guangdong), China), Shaoxing Li, Wei Hong, Juan Xu, Rongmin Liu, Bing Li, Pixin Ran

OA3277 Late Breaking Abstract - Development of an animal model for group 3 Pulmonary Hypertension
Diana Santos Ribeiro (Auderghem, Belgium), Marylène Lecocq, Michele De Beukelaer, Caroline Bouzin, Yousof Yakoub, Rozenn Quarek, Olivier Vancanegem, François Huaux, Sandrine Hormann, Frederic Perros, Laurent Godinas, Charles Pilette

OA3278 Late Breaking Abstract - Infrared thermography on patients with Pulmonary Hypertension. Prognostic value.
Eliana Evangelina Caletagi (Berazategui, Argentina), Nicolas Atamañuk, Diego Litewka, Rafael Zaug Nadur, Diego Hoffmann, B Mangarielo, Patricia Guitzelmann, Miguel Payaslian

OA3279 Late Breaking Abstract - Clinical Efficacy and Safety of Macitentan Transitioned from Bosentan in Patients with Pulmonary Arterial Hypertension
Sarfraz Ahmed Saleemi (Riyadh, Saudi Arabia), Abdullah M Aldalaan, Ihab M Weheba

7.3K  Session 341  14:45 - 16:45
Symposium: The best of the European Respiratory Journal in 2018
Aims: In this session, the section editors of the European Respiratory Journal (ERJ) in the fields of asthma, interstitial lung disease, tuberculosis and sleep medicine/ventilation will choose and present essential elements of the (in their expert opinion) best papers that were published in the ERJ between late 2017 and July 2018.
Disease(s): Airway diseases  Sleep and breathing disorders
Method(s): Epidemiology  General respiratory patient care  Physiology
Tag(s): Clinical
Target audience: Allergist, Clinical researcher, Patient, Trainee, Adult pulmonologist/Clinician
Chairs: Martin Kolb (Hamilton (ON), Canada), Marc Humbert (Paris, France)

14:45 The best ERJ papers in asthma and allergy
Paul O'Byrne (Hamilton (ON), Canada)  3280

15:15 The best ERJ papers in interstitial and rare lung diseases
Vincent Cottin (Lyon, France)  3281

15:45 The best ERJ papers in tuberculosis
Giovanni Battista Migliori (Varese (VA), Italy)  3282

16:15 The best ERJ papers in sleep medicine and ventilation
Patrick Lévy (Grenoble, France)  3283

7.3Q  Session 342  14:45 - 16:45
Oral presentation: Pathophysiological aspects of sleep-disordered breathing: intermittent hypoxia
Disease(s): Sleep and breathing disorders
Method(s): Imaging  Physiology  Cell and molecular biology
Chairs: Isaac Almendros (Barcelona, Spain), Silke Ryan (Dublin 14, Ireland)

OA3284 Late Breaking Abstract - Differential effect of intermittent hypoxia and sleep fragmentation in the progression of Alzheimer Disease in a mouse model of obstructive sleep apnea
Isaac Almendros (Barcelona, Spain), Maria José Menal, David Gozal, Anna Colell, Ramon Farré

OA3285 Intermittent hypoxia, the hallmark of sleep apnea, induces HIF-1-dependent mitochondrial dysfunction
Sophie MOULIN (Grenoble, France), Marion Pauly, Amandine Thomas, Maximin Detrait, Guillaume Vial, Frederic Lamarche, Herve Dubouchaud, Claire Arnaud, Diane Godin-Ribault, Elise Belaidi-Corsat

OA3286 Mechanisms involved in the deleterious impact of intermittent hypoxia on ischemic cardiomyopathy.
Maximin Détrait (La Tronche, France), Guillaume Bourdier, Sophie Moulin, Elise Belaidi, Claire Arnaud
7.3M Session 343 14:45 - 16:45

Oral presentation: Ventilation and lung imaging in critically ill patients

Disease(s): Respiratory critical care

Method(s): Imaging  General respiratory patient care  Transplantation  Cell and molecular biology  Respiratory intensive care

Chairs: Marcus Schultz (Amsterdam, Netherlands), Ezgi Özyılmaz (Adana, Turkey)

OA3292 Late Breaking Abstract - Biological phenotypes of ARDS show differential expression of genes involved in oxidative phosphorylation and immunomodulation: an illustration for the need of personalized medicine in ARDS.
Lieuwe Bos (Amsterdam, Netherlands), Brandon Scicluna, Tom Van Der Poll, David Ong, Olaf Cremer, Marcus Schultz

OA3293 A lung volume change protocol prevents lung collapse after PEEP decrement in recovering ARDS.
Mathuwadee Praipruksaphan (Bangkok, Thailand), Napplika Kongpolprom

OA3294 Weaning with or without PEEP?
Mehyar Lavae-Mokhtari (Ibbenbueren, Germany), Gabriela May, Joachim Fichter, Nicolas Dickgreber

OA3295 Proportional assist ventilation (pav+) versus pressure support ventilation (psv) for weaning and patient ventilator interaction in chronic obstructive pulmonary disease.
Aiaie Abdurabo Mohamed-Hussein (Assiut, Egypt), Suzan Salama, Walied Gamal

OA3296 Lung autopsies in patients with lung infiltrates died in the intensive care unit.
fernando rodriguez (Montevideo, Uruguay), Nicolas Nin, Javier Hurtado, Ana Vilas, Cristina Davila

OA3297 Thin-Section CT in patients with smoke inhalation injury.
Cheol-Hong Kim (Gyeonggi-do, Republic of Korea), Dong-Gyu Kim

OA3298 Global versus Regional Lung Ultrasound Scoring in Critically Ill Patients with Invasive Ventilation.
Luigi Pisani (Amsterdam, Netherlands), Veronica Vercesi, Smrit, Marcus J. Schultz

OA3299 Lung aeration as assessed by lung ultrasound is independent of tidal volume size in intensive care unit patients with invasive ventilation.
Smrit (Amsterdam, Netherlands), Luigi Pisani, Fabienne Simonis, Marcus Schultz

7.3O Session 344 14:45 - 16:45

Oral presentation: Lung cancer: new aspects in diagnosis and management

Disease(s): Thoracic oncology  Sleep and breathing disorders

Method(s): General respiratory patient care  Cell and molecular biology

Chairs: Joanna Chorostowska-Wynimko (Warsaw, Poland), Wouter H. van Geffen (Leeuwarden, Netherlands)

OA3300 PD-L1 expression on lung cancer stem cells in metastatic lymph nodes.
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecien, Małgorzata Polubiec-Kownacka, Elzbieta Rutkowska, Joanna Domagała-Kulawik
A variant in LKB1 gene can predict the clinical outcomes of chemotherapy in patients with non-small cell lung cancer

Seung Soo Yoo (Daegu, Republic of Korea), Hyewon Seo, Hyo-Gyoung Kang, Deuk Kju Jung, Jin Eun Choi, Hyeyoung Park, Hyejin Lee, Hong Guen Oh, Young Hun Lee, Sun Ha Choi, Shin Yup Lee, Jaehoe Lee, Seung Ik Cha, Chang Ho Kim, Jae Young Park

Predictive role of plasmatic biomarkers in advanced non-small cell lung cancer (NSCLC) treated with nivolumab (nivo).

Adrien Costantini (Paris, France), Catherine Julie, Coraline Dumenil, Sofia Héliaos-Rodzewicz, Jennifer Dumoulin, Violaine Giraud, Sylvie Labrunie, Thierry Chinet, Jean-Francois Emile, Etienne Giroux-Leprieur

BRONCHIAL MICROBIOME IN PATIENTS WITH LUNG CANCER

Jose Javier Vengoechea (Zaragoza, Spain), Ana Lucia Figueredo, Marta Cobo, Laura Torralba, Javier Errasti, Elisa Minchote, Rosa Del Campo, Salvador Bello

Prevalence of obstructive sleep apnea (OSA) in patients with lung cancer. Results from the prospective SAIL study Sleep Apnea In Lung Cancer

Elena Cabezas Pastor (Madrid, Spain), Maria Teresa Perez-Warnisher, Maria Fernanda Troncoso, Teresa Gomez, Rosario Melchor, German Peces-Barba, Nicolás Gonzalez Mangado, Luis Seijo

Oral presentation: Recent insights in childhood asthma and wheezing

Disease(s): Airway diseases

Method(s): Public health Epidemiology

Prescribed analgesics in pregnancy and the risk of child asthma- a register-based study.

Bronwyn Brew (Stockholm, Sweden), Catarina Almqvist, Cecilia Lundholm, Seif Shaheen

Association of early life factors with wheezing phenotypes in preterm-born children compared to term-born children

Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), W. John Watkins, John Lowe, Raquel Granell, A. John Henderson, Sailesh Kotecha

Early life vitamin D levels and childhood respiratory morbidity and allergic sensitization

Rosalie Mensink-Bout (Rotterdam, Netherlands), Evelien R. Van Meel, Johan C. De Jongste, Irwin K. Reiss, Vincent W.V. Jaddoe, Liesbeth Duijts

Early childhood growth patterns and lung function and asthma at 10 years

Maribel Casas (Barcelona, Spain), Hernan T. Den Dekker, Claudia J. Krithof, Irwin K. Reiss, Martine Vrijheid, Jordi Sunyer, Johan C. De Jongste, Vincent W.V. Jaddoe, Liesbeth Duijts

GST genotypes modify the association between paracetamol use in early life and lung function at 18 years

Xin Dai (Truganina (VIC), Australia), Shyamali Dharmage, Michael Abramson, Adrian Lowe, Jennifer Perret, Bircan Erbas, Nilakshi Waidyatilake, Caroline Lodge

Indoor microbial diversity and risk of different wheezing phenotypes

Anne M. Karvonen (Kuopio, Finland), Pirkka V. Kirjavainen, Martin Täubel, Balamuralikrishna Jayaparakash, Rachel I. Adams, Martin Depner, Anne Hyvärinen, Salme Remes, Erika von Mutius, Juha Pekkanen

Using a Bayesian approach and external validation to predict persistent asthma at the age of 10 and 20 years in general and high-risk populations


Poster discussion: Pulmonary hypertension: right ventricle function, haemodynamics and exercise

Disease(s): Pulmonary vascular diseases Sleep and breathing disorders

Method(s): Cell and molecular biology Imaging General respiratory patient care Physiology

Chairs: Harm Jan Bogaard (Amsterdam, Netherlands), Luke Howard (London, United Kingdom)

Epigenetic effects of exercise and respiratory training in patients with pulmonary arterial hypertension

Christina Eichstaedt (Heidelberg, Germany), Jeremias Verwegen, Jie Song, Zixuan Pan, Nicola Benjamin, Christine Fischer, Ekkehard Grüning

Dynamic right ventricular-pulmonary arterial (RV-PA) uncoupling during incremental exercise in HFrEF

Inderjit Singh (new haven, United States of America), Farbod Rahaghi, Rudolf Oliveira, David Systrom, Aaron Waxman
The pulmonary artery pulsatility index correlates with ventriculo-vascular coupling and elevated filling pressures in patients with pulmonary arterial hypertension.
Roberto Bernardo (Oklahoma City, United States of America), Rebecca Vanderpool, Franz Rischard

Reappraising the effects of pulmonary artery wedge pressure on right ventricular pulsatile loading
Denis Chemla (Le Kremlin-Bicêtre, France), Emmanuelle Berthelot, Jason Weatherald, Laurent Savale, Pierre Attal, David Montani, Olivier Sibton, Marc Humbert, Philippe Herve, Patrick Assayag

Right atrial pressure at rest and during exercise in patients with and without pulmonary hypertension: A retrospective analysis
Silvia Ulrich (Zurich, Switzerland), Patrick Bader, Lukas Herren, Stéphanie Saxer, Mona Lichtblau, Charlotte Berlier, Esther Schwarz, Michael Furian, Konrad Bloch

Association of intrinsic right ventricular function with exercise tolerance and ventilatory efficiency in pulmonary arterial hypertension
Toshitaka Nakaya (Sapporo, Japan), Hiroshi Ohira, Takahiro Sato, Taku Watanabe, Noriko Oyama-Manabe, Shintaro Kinugawa, Masaharu Nishimura, Ichizo Tsujino

Increased right ventricular systolic:diastolic duration ratio predicts mortality in idiopathic pulmonary arterial hypertension
Colm McCabe (Cambridge (Cambridgeshire), United Kingdom), Irena Ivanac Vranesic, Wei Li, Laura Price, Aleksander Kempny, Konstantinos Dimopoulos, S. John Wort

Right ventricular size and contractile reserve significantly correlate in patients with pulmonary hypertension
Alberto Maria Marra (Heidelberg, Germany), Lukas Fischer, Nicola Benjamin, Benjamin Eigenlauf, Satenik Harutyunova, Hanns-Martin Lorenz, Norbert Blank, Christian Nagel, Christine Fischer, Ekkehard Gruenig

Pulmonary vascular distensibility in pulmonary hypertension due to left heart disease
Christian Gerges (Wien, Austria), Mario Gerges, Irene Lang

The impact of obesity on pulmonary haemodynamic interpretation
Geoffrey Watson (London, United Kingdom), Christopher Baker, Michael Polkey, Luke Howard

Incremental Shuttle Walk Test predicts survival in non-Group 1 Pulmonary Hypertension without a ceiling effect
Robert Lewis (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Judith Hurdman, Iain Armstrong, Ian Smith, Matthew Austin, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Allan Lawrie, Roger Thompson, Robin Condliffe, David Kiely

Incremental shuttle walking test distance is reduced in patients with pulmonary hypertension in WHO Functional Class I
Robert Lewis (Sheffield (South Yorkshire), United Kingdom), Catherine Billings, Iain Armstrong, Judith Hurdman, Ian Smith, Matthew Austin, Charlie Elliot, Athanasios Charalampopoulos, Ian Sabroe, Allan Lawrie, Roger Thompson, Robin Condliffe, David Kiely

Parasympathetic activity in pulmonary arterial hypertension: could a simple measure do the trick?
Paolo Parrella (Napoli, Italy), Giacomo Campi, Alessio Rodolico, Angela Mancini, Riccardo Franco, Dalila Bruno, Alessandra Cuomo, Gabriele Tocchetti, Mario Petretta, Domenico Bonaduce, Valentina Mercurio

Echocardiographic assessment in lowlanders vs. highlanders living above 2500m
Mona Lichtblau (Zürich, Switzerland), Stéphanie Saxer, Patrick Bader, Michael Furian, Philipp Scheiwiller, Maamed Mademilov, Bermet Estebesova, Batyr Osmnnow, Nuriddin Marazhapov, Ulan Seraliev, Talant Sooronbaev, Konrad Bloch, Silvia Ulrich

Characterization of dynamic left ventricular systolic and diastolic function in patients with obstructive sleep apnea syndrome with preserved left ventricular ejection fraction
Angelo Canora (Napoli (NA), Italy), Antonello D'Andrea, Carmine Nicoletta, Simona Sperlongano, Giacomu Ghinassi, Giorgio Emanuele Polistina, Gianpaolo Tocci, Marialuisa Bocchino

Correlation between sympathovagal modulation and functional capacity in pulmonary arterial hypertension patients.
Katya Rigatto (Porto Alegre (RS), Brazil), Gabriela Roncato, Fabricio Fontoura, Fernanda Spilimbergo, Gisela Meyer, Guilherme Watte, Walter Vargas, Karina Casali, Danilo Berton

Does inspiratory muscle training improve the sympathovagal balance and endothelial function in groups I and IV of pulmonary hypertension?
Fabricio Farias da Fontoura (Porto Alegre (RS), Brazil), Gabriela Roncato, Fernan Spilimbergo, Gisela Meyer, Guilherme Watte, Walter Vargas, Danilo Berton, Katya Rigatto

Cardiopulmonary exercise test provides valuable information on function and prognosis in PAH
Rocco Francesco Rinaldo (Milano (MI), Italy), Luke Sebastian Howard
Terminal 7  
Session 347  
14:45 - 16:45

**Oral presentation: Lung transplant science: from primary graft to chronic allograft dysfunction**

**Disease(s):**  
- Respiratory infections  
- Respiratory critical care  
- Respiratory infections

**Method(s):**  
- Imaging  
- Transplantation

**Chairs:** Christian Benden (Zürich, Switzerland), Robin Vos (Leuven, Belgium)

**OA3330**  
Influences of primary graft dysfunction (PGD) on parenchymal remodeling after lung transplantation (LT) detected by mean quantitative computed tomography (CT).  
Caterina Salito (Milano (MI), Italy), Andrea Aliverti, Davide Tosi, Francesca Pennati, Rosaria Carrinola, Lorenzo Rosso, Paolo Tarsia, Letizia Morlacchi, Mario Nosotti, Alessandro Palleschi

**OA3331**  
Diagnosis of antibody-mediated rejection (AMR) on lung transplant biopsies: A retrospective single-center case study  
Silvana Geleff (Vienna, Austria), Gottfried Fischer, Peter Jakusch

**OA3332**  
Is influenza trivalent vaccination effective in lung transplant recipients?  
Jana Kleinerova (Dublin 8, Ireland), Lana Khorsheed, Sean Walsh, Patricia Ging, Sara Winward, Iain Lawrie, Breda Lynch, Jim Egan

**OA3333**  
Clinical implications of host-bacteria-virus interactions in lung transplantation  
Daniel-Adrien Wurlod (Lausanne, Switzerland), Eric Bernasconi, Celine Pattaroni, John-David Aubert, Benjamin Marsland, Laurent Nicod

**OA3334**  
Bronchiectasis as prognostic factor in bronchiolitis obliterans syndrome after lung transplantation  
Anke Van Herck (Leuven, Belgium), Annelore Sacreas, Tobias Heigl, Stijn Verleden, Bart Vanaudenaerde, Walter De Wever, Geert Verleden, Robin Vos

**OA3335**  
The murine orthotopic single lung transplantation model for chronic rejection: work in progress?  
Tobias Heigl (Leuven, Belgium), Janne Kaes, Annelore Sacreas, Anke Van Herck, Greetje Vande Velde, Stijn Verleden, Geert Verleden, Wim Janssens, Robin Vos, Bart Vanaudenaerde

**OA3336**  
B cells drive iBALT formation in a mouse model of chronic lung allograft dysfunction  
Natalia Smirnova (München, Germany), Thomas Conlon, Carmela Morrone, Ali Oender Yildirim, Oliver Eickelberg

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**Poster discussion: What’s new in lung function and exercise assessment in COPD?**

**Disease(s):**  
- Airway diseases  
- Sleep and breathing disorders  
- Respiratory critical care

**Method(s):**  
- Endoscopy and interventional pulmonology  
- Respiratory intensive care  
- Epidemiology  
- Imaging  
- General respiratory patient care  
- Physiology

**Chairs:** Andrea Aliverti (Milan, Italy), Nicoletta R. Morelli (Den Haag, Netherlands)

**PA3337**  
Late Breaking Abstract - Optimizing FEV1/FVC threshold to predict COPD hospitalization and mortality: NHLBI pooled cohorts study  
Surya Bhatt (Birmingham, United States of America), Pallavi Balte, Patricia Cassano, David Couper, David Jacobs, Ravi Kallan, Robert Kaplan, George O'Connor, Joseph Schwartz, Sachin Yende, Jason Sanders, Mark Dransfield, Paolo Chaves, Wendy White, Elizabeth Oelsner

**PA3338**  
Late Breaking Abstract - Comparison of High Flow Nasal Cannula with Noninvasive Ventilation in Facilitating Weaning COPD From Invasive Ventilation: A Prospective Randomized Controlled Study  
Jie Li (Chicago, United States of America), Jing Guoqiang, Jie Li, Dong Hao, Tao Wang, Xiaozhi Wang

**PA3339**  
Late Breaking Abstract - Effect of oxygen supplementation on sleep and nocturnal breathing in patients with chronic obstructive pulmonary disease travelling to high altitude: randomized trial  
Lu Tan (Chengdu, China), Michael Furian, Tsegyal D Latshang, Sayaka S Aeschbacher, Fabienne Huber, Deborah Flueck, Mona Lichtblau, Stefanie Ulrich, Elisabeth D Hasler, Philipp M Scheiwiller, Silvia Ulrich, Malcolm Kohler, Konrad E Bloch

**PA3340**  
FEV6 as a marker of airflow limitation: a cross-sectional study  
Rishabh Raj (Mumbai (Maharashtra), India), Rajiv Mathur

**PA3341**  
Comparison of pulsed flow from portable oxygen concentrators with continuous oxygen delivery.  
John Chen (Edmonton (AB), Canada), Ira Katz, Georges Caillibotte, Marine Pichelin, Warren Finlay, Kaixian Zhu, Andrew Martin

**PA3342**  
Impact of mid distance hypobaric flight simulation on walking distance and desaturation in COPD patients  
Dominic Dellweg (Schmallenberg Grafenschaft, Germany), Juliane Schmitten, Jens Kerl, Ekkehard Hoehn, Jutta Dellweg, Dieter Köhler, Peter Haidl
Investigation of relationship between four meter gait speed test and cardiopulmonary exercise test to determine exercise capacity in COPD patients
Sevinc Sarinc Ulasli (Ankara, Turkey), Oğuz Karcioğlu, Ahmet Uğur Demir

Associations between isometric and dynamic quadriceps measures with functional capacity in chronic obstructive pulmonary disease (COPD)
Kim-Ly Bui (Québec (QC), Canada), Sunita Mathur, Nathalia Maia, Pat Camp, Gail Dechman, Francois Maltais, Didier Saey

Validation of isometric quadriceps muscle strength testing and relationship with functional capacity in COPD
Kim-Ly Bui (Québec (QC), Canada), Sunita Mathur, Nathalia Maia, Pat Camp, Gail Dechman, Francois Maltais, Didier Saey

A high degree of dyspnea is associated with poor exercise capacity in COPD patients, airflow obstruction being equal
Ernesto Crisafulli (Modena (MO), Italy), Marina Aiello, Panagiota Tzani, Antonella Ielpo, Chiara Longo, Veronica Alfieri, Giuseppina Bertorelli, Alfredo Chetta

Noninvasive negative pressure ventilation improves survival of COPD patients with exercise desaturation
Hung Yu Huang (Taipei, Taiwan), Te-Fang Sheng, Chee Jen Chang, Lan-Yan Yang, Chun-Hua Wang, Han-Pin Kuo

Influences of obstruction and hyperinflation on electrocardiographic P wave, QRS and T wave axis in COPD
Peter Alter (Marburg, Germany), Henrik Watz, Kathrin Kahnert, Klaus F Rabe, Frank Bierzt, Ronald Fischer, Philip Jung, Jana Graf, Robert Bals, Claus F Vogelmeier, Rudolf A Jorres

Effect of changes in peak inspiratory flow on the dose of salbutamol delivered by nebulizers under simulated conditions
John Pritchard (Newtown Linford, United Kingdom)

Pulmonary artery diameter and nocturnal hypoxemia in smokers with/without COPD.
Marta Marin Oto (Pamplona (Navarra), Spain), Marta Calvo, Jessica Gonzalez, Oscar Claveria, Borja Recalde, Ana Belen Alcaide, Juan Bertó, Antzunta Campo, Javier Zulueta, Gorka Bastarrika, Luis Seijo, Juan Pablo De Torres

Evaluation of a newly developed spirometer to measure dynamic lung hyperinflation by the method of incremental hyperventilation in patients with COPD.
Keisaku Fujimoto (Matsumoto, Japan), Shohei Kawachi

Short-course pulmonary rehabilitation and exacerbations and activity of COPD patients over 1 year
Fanny W.S. Ko (Shatin, Hong Kong), Ka-Pang Chan, Wilson Tam, Ivor Wong, Tat-On Chan, April Ip, David Shu-Cheong Hui

Nasal high flow therapy: The effect on exercise performance in patients with COPD
Paul Kelly (Christchurch, New Zealand), Paul Kelly (Dublin 7, Ireland), Jaimie Dickstaal, Lutz Beckert

Poster discussion: Exercise is medicine: testing and treating patients with some effort

Exercise induced bronchoconstriction assessed using the forced oscillation technique
Leigh Seccombe (Sydney (NSW), Australia), Lachlan Buddle, Matthew Peters, Claude Farah

T2-endotype predicts bronchodilator (BD) response in Exercise-Induced Bronchoconstriction (EIB)
Matteo Bonini (London, United Kingdom), Jacopo Messina, Simone Petraruolo, Daniel Piamonti, Marcello Di Paolo, Marco Brunori, Paolo Palange, Omar Usmani

Is continuous laryngoscopy during cardiopulmonary exercise testing reliable for measuring maximum oxygen uptake?
Ida Jansrud Hammer (Nesttun, Norway), Lars Peder Bovim, Maria Vollsæter, Ola Røksund, Thomas Halvorsen, Hege H. Clemm
<table>
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<tr>
<th>Session 350</th>
<th>14:45 - 16:45</th>
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### Poster discussion: Cryobiopsy in interstitial lung disease (ILD)

**Disease(s):** Thoracic oncology, Interstitial lung diseases, Respiratory infections, Respiratory infections

**Method(s):** Imaging, Endoscopy and interventional pulmonology

**Chairs:** Jürgen Hetzel (Tuebingen, Germany), Lizzy Wijmans (Amsterdam, Netherlands)

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<thead>
<tr>
<th>PA3358</th>
<th>Laryngeal laser surgery reduces neural respiratory drive and work of breathing in exercise-induced laryngeal obstruction</th>
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<tbody>
<tr>
<td>Emil S. Walsted (Frederiksberg, Denmark), Azmy Faisal, Matthew J. Pavitt, Vibeke Backer, Yuan-Ming Luo, Michael I. Polkey, James H. Hull</td>
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<tr>
<th>PA3359</th>
<th>Intercostal muscle oxygenation during expiratory load breathing</th>
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<tr>
<td>Quentin Bretonneau (Poitiers, France), Claire de Bisschop, Aurélien Pichon</td>
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<tr>
<th>PA3360</th>
<th>Acute effect of non-invasive ventilation during FES-rowing exercise in patients with high-level spinal cord injury</th>
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<tbody>
<tr>
<td>Isabelle Vivodtzev (Cambridge, United States of America), Glen Picard, Felipe Xerez Cepeda, J. Andrew Taylor</td>
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<tr>
<th>PA3361</th>
<th>Influence of the VitaBreath on Exercise Tolerance in Patients with COPD</th>
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<td>Nikolaos Chynkiamis (Newcastle upon Tyne, United Kingdom), Nikolaos Chynkiamis (Newcastle upon Tyne, United Kingdom), Matthew Armstrong, Vivien Spencer, Nick Lane, Tom Hartley, William Gray, Stephen Bourke, Ioannis Vogiatzis</td>
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<tr>
<th>PA3362</th>
<th>Effect of ambulatory continuous positive airway pressure on neural respiratory drive and functional capacity in excessive dynamic airway collapse</th>
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<tbody>
<tr>
<td>Georgios Kaltsakas (Athens, Greece), Maxime Patout, Gill Arbane, Elodie Lhuillier, Liju Ahmed, David D'Cruz, Michael Polkey, James Hull, Nicholas Hart, Patrick B. Murphy</td>
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<tr>
<th>PA3363</th>
<th>Breathing pattern and post-exercise inspiratory muscle fatigue in COPD: Comparing step tests and cycle ergometry</th>
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<tr>
<td>Tiago Rodrigues De Lemos Augusto (Campo Grande, Brazil), Karina Utida, Paulo Muller</td>
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<tr>
<th>PA3364</th>
<th>Inter-individual variability in breathlessness perception in chronic obstructive pulmonary disease</th>
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<tr>
<td>Peter Siu Pan Cho (London, United Kingdom), Hannah Victoria Fletcher, Irem S Patel, Gerrard Francis Rafferty, John Moxham, Richard Douglas Turner, Surinder Singh Birring, Caroline Judith Jolley</td>
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<th>PA3365</th>
<th>Sensorial and physiological responses to symptom-limited progressive exercise in dyspneic subjects with inspiratory muscle weakness</th>
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<td>Bianca Feldmann (Ivoti, Brazil), Franciele Plachi, Debora Hütten, Ricardo Gass, Reisi Zambiazi, Fernanda M Balzan, Marcelo B Gazzana, Danilo C Berton</td>
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<thead>
<tr>
<th>PA3366</th>
<th>Validation of the Timed Up and Go test to detect fallers in COPD patients</th>
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<tr>
<td>Vivien Reynaud (Clermont Ferrand, France), Daniela Muti, Annick Greil, Denis Caillaud, Ruddy Richard, Emmanuel Coudeyre, Frédéric Costes</td>
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<tr>
<th>PA3367</th>
<th>Non-invasive assessment of pulmonary microcirculation at rest and exercise in patients with previous pulmonary thromboembolism</th>
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</thead>
<tbody>
<tr>
<td>Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Renata Diniz Marques, Brandon Palmer, Christine D’Arsigny, Denis E O’Donnell, J Alberto Neder</td>
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<thead>
<tr>
<th>PA3368</th>
<th>The cardiopulmonary exercise test (CPET) in the evaluation of functional capacity before and after cardiac resynchronization therapy (CRT)</th>
</tr>
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<tbody>
<tr>
<td>Fabiana Baldi (Rome, Italy), Fabiana Baldi, Maria Rosaria Castriotti</td>
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<tr>
<th>PA3369</th>
<th>The role of peak oxygen consumption measurement in predicting postoperative pulmonary complications in patients with early stage lung cancer</th>
</tr>
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<tr>
<td>Deniz Koksal (ankara, Turkey), Ferhad Ibrahimov, Sevence Sarine Ulasli, Erkan Dikmen, Yigit Yilmaz, Elif Babaoglu, Funda Aksu, Emin Maden, Riza Dogan, Sahil Emri</td>
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<tr>
<th>PA3370</th>
<th>Investigating a relationship between obesity hypventilation and physical function in severe obesity</th>
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<tr>
<td>Imran Johan Meurling (Dublin 4, Ireland), Emer O'Malley, Colin Dunleavy, Cathy Breen, Tomas Ahern, Tara Cusack, Donal O'Shea, John Garvey</td>
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<tr>
<th>PA3371</th>
<th>Role of training in SNIP maneuvers in Amyotrophic Lateral Sclerosis patients</th>
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<tr>
<td>Paola Pierucci (Sydney (NSW), Australia), Michela Dimitri, Vito Liotino, Agnese Caringella, Pierluigi Carratu, Silvano Dragonieri, Onofrio Resta</td>
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<tr>
<th>PA3372</th>
<th>Long-term effects of high-intensity training after lung cancer surgery — A five-years follow-up of a randomized controlled trial</th>
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<tr>
<td>Elisabeth Edvardsen (Oslo, Norway), Sigmund A Anderssen, Fredrik Borchsenius, Ole Henning Skjønsberg</td>
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</table>
Evaluation of Transbronchial Lung Cryobiopsy Freezing Time, Cryobiopsy Size, Histological Quality and Incidence of Complication: A Prospective Clinical Trial
ShuLiang Guo (BARCELONA, Spain), Yishi Li, Jiawei Wei

Evaluation of novel cryoprobes for transbronchial cryobiopsy – an in-vivo animal study
Jürgen Hetzel (Tuebingen, Germany), Walter Linzenbold, Markus Enderle, Daniela Nüßle, Hans Bösmüller, Venerino Poletti

Cryobiopsy versus VATS in management of patients with UIP possible
Donato Lacedonia (Molfetta (BA), Italy), Domenico Loizzi, Nicola Ardò, Giovanna Elissiana Carpagnano, Massimo Selmi, Antonio Giuseppe Palmiotti, Ennio Vincenzo Sassani, Simona Tortorella, Francesco Sollitto, Maria Pia Foschino Barbaro

Performance of cryobiopsy versus forcep biopsy in adjacent and eccentrically orientated R-EBUS lesion
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Mei Ching Yong, Swee Kim Chan, Siew Teck Tie

Cryobiopsy in diagnosis of smear negative pulmonary tuberculosis (SNPTB)
Tamer Ali El-Hadidy (Mansoura, Egypt), Mohammad K. Badrawy, Mohsen M. El Shafey1, Mohamed A. Abo El Ela2, Nadia W. El Sharkawy1

Catheter tract metastasis in mesothelioma patients with indwelling pleural catheters
Sarah Hosseini (Ottawa (ON), Canada), Michael Mitchell, Pen Li, Carolina Souza, Kayvan Amjadi

Transbronchial lung cryobiopsy in asthmatic patients: is it useful?
Sara Colella (Teramo (TE), Italy), Claudia Ravaglia, Chiara Massaccesi, Vittorio D'Emilio, Gianluca Panella, Federica Fioretti, Guido Collina, Riccardo Pela, Venerino Poletti

Single centre experience in safety and diagnostic yield of cryobiopsy
Ana Hećimović (Zagreb, Croatia), Sonja Badovinac, Mihovil Roglić, Denis Baričević, Marija Alilović, Ivica Mažuranić, Ante Marušić, Sven Seiwerth, Lovorka Batelja Vuletić, Miroslav Samardžija

Utility of transbronchial lung cryobiopsy with cryoprobe in DPLD
Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Swapnil Bakamwar, Parimal Deshpande, Vinit Niranjane

Transbronchial cryobiopsy guided by radial-EBUS for diagnosing interstitial lung diseases
Maciej Gnass (Myślenice, Poland), Artur Bartczak, Anna Filarecka, Stanislaw Orzechowski, Jerzy Soja, Małgorzata Szółkowska, Renata Langfort, Artur Szlubowski

Diagnosis of transbronchial cryobiopsy in peripheral lung lesions
Hanaa Shafiek (Alexandria, Egypt), Rezk Elaraby, Anwar Alganady, Mohamed Eldesoky Abo-Shehata

Cryobiopsy increases diagnostic yield in mucosal endobronchial lesions in comparison to forceps biopsy
Ahmed Ehab Abdallah (Mansoura, Egypt), Mohammad Khairy El-Badrawy, Amr Abdelhamed Moawad, Mohammad Eldesoky Abo-Shehata

Transbronchial cryobiopsy protocol and diagnostic yield in diffuse parenchymal lung disease: a retrospective study
Lúcia Sofia Fernandes (Lisboa, Portugal), Catarina Antunes, Andrea Machado, Éva Brysch, Tiago Abreu, Leonor Mota, Júlio Semedo, Leonardo Ferreira, Anaïs Ribeiro, Cristina Bárbara

Cryobiopsy - the utility in diagnostic bronchoscopy for ground-glass nodules -
Yuji Matsumoto (Tokyo, Japan), Toshiyuki Nakai, Tomoki Nishida, Midori Tanaka, Takaaki Tsuchida, Yuichiro Ohe

7.2D Session 351 14:45 - 16:45
Poster discussion: Innovations in equipment and their application

Disease(s) : Airway diseases  Interstitial lung diseases  Pulmonary vascular diseases  Respiratory infections  Sleep and breathing disorders
Method(s) : General respiratory patient care  Imaging  Epidemiology  Physiology
PA3390  
**Comparison of Forced and Impulse Oscillometry Measurements: A Clinical Population and Printed Airway Model Study.**
Marcia Soares (Leicester (Leicestershire), United Kingdom), Matthew Richardson, James Thorpe, John Owens-Bradley, Sinan Siddiqui

PA3391  
**Does using a forehead or finger sensor during the six minute walk test impact oxygen saturation measurement?**
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvestre, Beverley Moseley, Helen Parfrey, Karen Sheares, Katrina Oates

PA3392  
**Structured Light Plethysmography as a method of recording disease severity in Cystic Fibrosis**
Muhammad Irfaan Khan (Cambridge, United Kingdom), Patricia Set, Mike Harrison, Alex Phythian, Chris Harding, Ines Henriques-Cadby, Stephen Walters, Karl Sylvestre

PA3393  
**Association between nasal and bronchial resistance in patients with COPD**
Gunta Strazda (Riga, Latvia), Kristine Jakone, Normunds Jurka, Olga Madaja, Dace Zentina, Immanuels Taivans

PA3394  
**Impulse oscillometry in restrictive respiratory diseases**
Olga Savushkina (Moscow, Russian Federation), Alexander Cherniak, Marina Kameneva, Evgenij Kryukov, Andrey Zaytsev

PA3395  
**The effect of comorbid Metabolic Syndrome and latent Obstructive Sleep Apnoea on the baseline medical parameters of volunteers screened from a Barrett's Esophagus Registry.**
Peter Coss (Dublin 8, Ireland), D Otoole, N Ravi, M Obrien, N Clarke, P Lawlor, J O Sullivan, P Goodman, J Reynolds, Am Mc Laughlin

PA3396  
**Prediction of individual cardiac output from measured VO2 and ventilation**
Min-Yeong Kang (Palaiseau, Republic of Korea), Thong Hu-Huy, Sven Gunther, Anh Tuan Dinh-Xuan, Bernard Sapoval

PA3397  
**How do forehead and finger sensors align to capillary oxygen saturation during the six minute walk test?**
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Rachel Lowry, Karl Sylvestre, Beverley Moseley, Parfrey Helen, Sheares Karen, Katrina Oates

PA3398  
**Do predicted tidal volumes have value in setting up domiciliary non-invasive ventilation?**
Sara Parsons (Surbiton (Surrey), United Kingdom), Emma Baker

PA3399  
**Post-bronchodilator response (PBDR) evaluated by plethysmographic and spirometric target parameters in patients with COPD, asthma-COPD-overlap (ACO) and asthma**
Richard Kraemer (Muri-Bern, Switzerland), Monika Leuenberger, Fabian Gardin, Jürg Barandun, Karl Klingler, Lukas Kern, Martin Brutsche

PA3400  
**Modification of inspired oxygen fraction does not change exercise oxygen uptake measured by JAEGER® Vyntus CPX: a validation study**
Ronald de Jeu (Leiden, Netherlands), Robert Schot, Herman Groepenhoff, Aarten K. Ninaber

PA3401  
**Quantification of airflow limitation in chronic obstructive pulmonary disease**
Khaled Hussein (Assiut, Egypt), Sarah Helal, Randa Ezzeldin, Ahmed Hamed

PA3402  
**Effect of wearing the Elevation Training Mask 2.0 on pulmonary and respiratory muscles function**
Marina Segizbaeva (St. Petersburg, Russian Federation), Nina Aleksandrova

PA3403  
**Obstructive sleep apnea after weight loss: when should we repeat the sleep study?**
Ana Lutas (Lisboa, Portugal), Sofia Furtado, Richard Staats, João Valença, Teresa Pequito, Marco Pereira, Paulo Roquete

PA3404  
**Detailed physiological profiling of patients for a study investigating the airway microbiome**
Aisling McGowan (Dublin, Ireland), Orla O’Carroll, Anna O’Brien, Seamus Cox, Patrick Goodman, Conor Burke

PA3405  
**Reference values for impulse oscillometry for children aged 3–18 years obtained using lambda-mu-sigma method – preliminary results**
Jakub Radieski (Rabka-Zdrój, Poland), Henryk Mazurek, zbigniew Doniec, Grzegorz Siergiejko

PA3406  
**Diagnostic accuracy of asthma severity grading using machine learning features and lung sounds**
Shrikant Pawar (Pune (Maharashtra), India), Sundeep Salvi, Yogesh Thorat, Rich Fletcher, Aneesh Anand, Christian Infante, Neerja Shastr, Vandana Vincent

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**Poster discussion: Latest developments in cystic fibrosis**
<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Airway diseases</th>
<th>Respiratory infections</th>
<th>Respiratory infections</th>
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<tbody>
<tr>
<td>Method(s)</td>
<td>Public health</td>
<td>Respiratory intensive care</td>
<td>Cell and molecular biology</td>
</tr>
<tr>
<td>Chairs</td>
<td>Mirjam Stahl (Heidelberg, Germany), Jane C. Davies (London, United Kingdom)</td>
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### PA3407
**Synergistic activity of colistin in combination with N-acetylcysteine against colistin-resistant Acinetobacter Baumannii grown in biofilms**
Francesco Sergio (Neuchâtel, Switzerland), Simona Pollini, Selene Boncompagni, Tiziana Di Maggio, Stefano Aliberti, Francesco Blasi, Lucia Pallecchi, Gian Maria Rossolini

### PA3408
**Safety and efficacy of intravenous (IV) Fosfomycin in adult cystic fibrosis patients**
Carlotta Biglia (Orbassano (TO), Italy), Cristina Bena, Giacomo Bonizzoni, Michela Belloccchia, Alessia Grande, Fabio Traversa, Elisa Clivati, Gianpietro Bandelli, Sara Demichelis, Carlo Albera, Barbara Messore

### PA3409
**Azoles therapeutic drug monitoring and fungal antimicrobial resistance in adults with Cystic Fibrosis**
Marcello Di Paolo (Roma (RM), Italy), Kavita Dave, Anitha Vijayasingam, Roosey Sheth, Emma Luke, Andrew Scourfield, Lisa Nwankwo, Silke Schelzen, Joseph Stuart Elborn, Darius Armstrong-James, Anand Shah

### PA3410
**The prevalence and diversity of fungi in respiratory samples of cystic fibrosis patients – a Dutch, nationwide, prospective, multicentre study**
Peter J. F. M. Merkus (Nijmegen, Netherlands), Tobias Engel, Lydie Slabbers, Carmen De Jong, Willem Melchers, Ferry Hagen, Paul Verweij, Jacques Meis

### PA3411
**Identification of disease specific biomarkers by exhalomics using Secondary Electrospray Ionisation High-resolution Mass Spectrometry (SESI-HRMS) in children with cystic fibrosis**
Katharina Heschl (Zürich, Switzerland), Naemi Haas-Baumann, Ronja Weber, Astghik Baghdasaryan, Srdjan J. Micic, Florian Singer, Renato Zenobi, Tobias Bruderer, Alexander Möller

### PA3412
**Detection of Pseudomonas aeruginosa infection in cystic fibrosis patients by eNose technology**

### PA3413
**Reduced uptake of inhaled carbon in airway macrophages from children with cystic fibrosis**
Norrice Liu (London, United Kingdom), Lisa Miyashita, Jonathan Grigg

### PA3414
**Retrospective analysis of treatment with Ivacaftor/Lumacaftor in patients with cystic fibrosis at the Munich Cystic Fibrosis Centers**
Susanne Nachrig (München, Germany), Pontus Mertsch, Matthias Griese, Matthias Kappler, Rudolf M Huber

### PA3415
**Effects of Lumacaftor-Ivacaftor Therapy on CFTR Function in Phe508del Homozygous Patients with Cystic Fibrosis**
Simon Y. Gräber (Berlin, Germany), Christian Dopfer, Lutz Nachricht, Lena Gyulumyan, Heike Scheuermann, Stephanie Hirtz, Sabine Wege, Heimo Mairbaeurl, Marie Dorda, Rebecca Hyde, Azadeh Bagheri-Hanson, Claudia Rueckes-Nilges, Sebastian Fischer, Marcus A. Mall, Burkhard Tuemmler

### PA3416
**Noninvasive ventilation (NPPV) affects Pulmonary Exacerbation (PE) rate in Cystic Fibrosis children (CFe)**
GABRIELA FERREYRA (TORINO, Italy), Lorenzo Appendini, Lucia Ronco, Irene Esposito, Elisabetta Bignamini

### PA3417
**Exercise capacity in patients with cystic fibrosis at 6 and 12 months after lung transplantation**
Marco Damian (Padova (PD), Italy), Michela De Toni, Maria Rita Marchi, Gabriele Foltran, Erica Bazzan, Graziella Turato, Marina Saetta, Manuel Cosio

### PA3418
**Acute effects of combined exercise and oscillatory positive expiratory pressure therapy on sputum properties and lung diffusing capacity in cystic fibrosis: a randomized, controlled, crossover trial**
Thomas Radtke (Zürich, Switzerland), Lukas Boeni, Peter Bohnacker, Marion Maggi-Bebba, Peter Fischer, Susi Kriemler, Christian Benden, Holger Dressel

### PA3419
**Risk factors for early lung function decline in young children with Cystic Fibrosis**
Juan Balinotti (Ciudad Autónoma Buenos Aires, Argentina), Daniel Chang, Viviana Rodriguez, Silvina Lubovich, Silvina Zaragoza, Natalia Escobar, Carlos Kofman, Lucia Perez, Victoria Ardiles, Alejandro Teper

### PA3420
**The TLR4 regulator miR-21 is downregulated in the paediatric cystic fibrosis airway**
Arlene Glasgow (Dublin 9, Ireland), Arlene Glasgow, Sebastian Vencen, Chiura De Santi, Rana Raoof, David Henshall, Barry Linnane, Paul McNally, Catherine Greene

### PA3421
**HspB5 in Cystic Fibrosis**
Fanny Degruigilier (Crétel, France), Xavier Decrouy, Virginie Prulière-Escabasse, Chong Jiang, Daniela Rotin, Pascale Fanen, Stéphanie Simon
Large phenotypic spectrum associated with two new deep intronic variants on the CFTR gene
Anne BERGOUGNOUX (Montpellier Cedex 5, France), Karine Deletang, Jessica Varilh, Florence Houriez, Jean-Pierre Altieri, Michel Koenig, Claude Férec, Claustres Mireille, Thierry Bienvenu, Marie-Pierre Audrezet, Adrien Pagin, Emmanuelle Girodon, Caroline Raynal, Magali Taulan-Cudars

PRO-INFLAMMATORY ACTIVITY AND OXIDATIVE STRESS ON A LINE OF CYSTIC FIBROSIS (CF) HUMAN RESPIRATORY EPITHELIUM
Juan Manuel Figueroa (Ciudad Autónoma Buenos Aires, Argentina), Mariângela Clauzure, Ángel Gabriel Valdivieso, María Macarena Massip-Copiz, Consuelo Mori, Andrea Vanesa Dugour, Doris Primrose, Tomas Santa Coloma

Plasma ceramides and sphingomyelins increase in primary ciliary dyskinesia but decrease in cystic fibrosis
Dilara Bal Topcu (Ankara, Turkey), Gokcen Tugcu, Filiz Ozcan, Mutay Aslan, Sanem Esref, Mina Gharibzadeh Hizal, Ebru Elmas Yalcin, Deniz Dogru Ersoz, Ugur Ozcelik, Nural Kiper, Incilay Lay, Yesim Oztas

Educational forum: Ensuring impactful independent education
CPD and lifelong learning
Aims: This session brings together ERS educational leadership, national society representatives, and educationalists alike to discuss the key issues in respiratory medical education, including:
- assessing educational needs
- importance of continuing professional for better patient outcomes
- trends and challenges
The audience will be encouraged to discuss the key issues that they are facing in their local, national and international educational settings.
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Policy maker, Paediatrician, Patient
Chairs: Daiana Stolz (Basel, Switzerland), Vivienne Parry (Oxon, United Kingdom)

15:00 Introduction
Daiana Stolz (Basel, Switzerland)

15:10 Assessing the educational needs (individual, multi-disciplinary team, country, profession/specialty)
Stefano Aliberti (Milan, Italy)

15:25 Importance of continuing medical professional development
- Patient perspective - patient outcomes (I. Saraiva)
- Professionals perspective - impact, behaviour change, ensuring standards, outcomes (R. Stevenson)
- Innovation (C. Jackson)
Isabel Saraiva (Cascais, Portugal), Robin Stevenson (Glasgow (Glasgow), United Kingdom), Chad Jackson (United States of America)

15:40 Discussion (open floor)

15:55 Conclusions and wrap up
Daiana Stolz (Basel, Switzerland)

Group members' meeting: Group 9.2 Physiotherapists
Chairs: Daniel Langer (Leuven, Belgium), Deniz Inal-Ince (Ankara, Turkey)

17:15-19:15
INDUSTRY EVENING SYMPOSIUM

17:30-19:00
INDUSTRY EVENING MINI SYMPOSIUM
7.3U Session 397 10:40 - 13:00
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.
Skills workshop: SW14 Radiological-pathological correlations in different lung diseases for clinicians FULLY BOOKED
Aims: Access educational materials here to demonstrate and discuss the radiological and pathological correlations in different lung diseases (lung emphysema, interstitial fibrosis and lung cancer) with experienced and less experienced participants.
Disease(s): Airway diseases, Thoracic oncology
Tag(s): Clinical
Target audience: General practitioner, Nurse, Adult pulmonologist/Clinician, Radiologist, Scientist (basic, translational), Student, Thoracic surgeon, Trainee
Chairs: Bogdan Dragos Grigoriu (Bruxelles, Belgium)

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<thead>
<tr>
<th>Introduction</th>
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<tbody>
<tr>
<td>Lung emphysema</td>
<td>Claus Peter Heussel (Heidelberg, Germany), Wim Timens (Groningen, Netherlands)</td>
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<tr>
<td>Interstitial fibrosis</td>
<td>Catherine Beigelman-Aubry (Lausanne, Switzerland), Aurelie Fabre (Dublin, Ireland)</td>
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<tr>
<td>Lung cancer</td>
<td>Sebastian Ley (München, Germany), Philipp A. Schnabel (Homburg (Saar), Germany)</td>
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7.3U Session 488 14:30 - 16:50
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.
Skills workshop: SW15 Radiological-pathological correlations in different lung diseases for clinicians
Aims: Access educational materials here to demonstrate and discuss the radiological and pathological correlations in different lung diseases (lung emphysema, interstitial fibrosis and lung cancer) with experienced and less experienced participants.
Disease(s): Airway diseases, Thoracic oncology
Tag(s): Clinical
Target audience: General practitioner, Nurse, Adult pulmonologist/Clinician, Radiologist, Scientist (basic, translational), Student, Thoracic surgeon, Trainee
Chairs: Bogdan Dragos Grigoriu (Bruxelles, Belgium)

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<tr>
<td>Lung emphysema</td>
<td>Claus Peter Heussel (Heidelberg, Germany), Wim Timens (Groningen, Netherlands)</td>
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<td>Interstitial fibrosis</td>
<td>Annette Fisseler-Eckhoff (Wiesbaden, Germany), Sara Tomassetti (Forli, Italy)</td>
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<tr>
<td>Lung cancer</td>
<td>Walter De Wever (Leuven, Belgium), Philipp A. Schnabel (Homburg (Saar), Germany)</td>
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7.3T Session 396 10:40 - 13:00
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.
Skills workshop: SW17 Essential skills for the intensive care unit
Aims: Access educational materials here to learn the essential skills needed for the daily work in intensive care units.
Disease(s): Respiratory critical care
Method(s): Respiratory intensive care
Tag(s): Clinical
Target audience: Critical/Intensive care physician, General practitioner, Paediatrician, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician
Chairs: Cesare Gregoretti (Palermo, Italy)

| Introduction | 3740 |
### Session 487 14:30 - 16:50

**Skills workshop: SW18 Essential skills for the intensive care unit**

**Aims:** Access educational materials here to learn the essential skills needed for the daily work in intensive care units.

**Disease(s):** Respiratory critical care

**Method(s):** Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Paediatrician, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Christian Bruells (Aachen, Germany)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>14:45</td>
<td>Bronchoscopy - the basics</td>
</tr>
<tr>
<td>15:15</td>
<td>Intubation - how to do it correctly</td>
</tr>
<tr>
<td>15:45</td>
<td>Percutaneous tracheostomy</td>
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<tr>
<td>16:15</td>
<td>How to handle haemoptysis</td>
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### Session 392 08:30 - 12:00

**Skills workshop: SW19 Clinical interpretation of spirometry results FULLY BOOKED**

**Aims:** Access educational materials here To know how to interpret spirometry tests; to be able (1) to differentiate between poor technique and technical errors and abnormal spirometry by evaluating patterns in flow volume and volume time curves; and (2) to recognise abnormal from normal spirometry when interpreting curves and results tables by comparing the measured values with the reference values.

**Disease(s):** Airway diseases, Pulmonary vascular diseases, Sleep and breathing disorders

**Chairs:** Felip Burgos Rincon (Barcelona, Spain), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Introduction</td>
</tr>
<tr>
<td>08:40</td>
<td>Recognise technically poor traces and errors of measurement</td>
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<tr>
<td>09:00</td>
<td>Common discussion</td>
</tr>
<tr>
<td>09:15</td>
<td>Deciding on reference values and how to calculate them</td>
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<tr>
<td>09:40</td>
<td>Common discussion</td>
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<tr>
<td>09:50</td>
<td>Break</td>
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Look at F-V/V-T traces and describe the range of abnormal shapes
Lindsay Zurba (Durban, South Africa), Vicky Moore (Birmingham (West Midlands), United Kingdom), Flemming Madsen (Vanløse, Denmark), Marija Vukoja (Sremska Kamenica, Republic of Serbia)

10:25 Common discussion

Describe the severity of any abnormality
Lindsay Zurba (Durban, South Africa), Vicky Moore (Birmingham (West Midlands), United Kingdom), Marija Vukoja (Sremska Kamenica, Republic of Serbia), Flemming Madsen (Vanløse, Denmark)

11:10 Common discussion

Write a spirometry report
Lindsay Zurba (Durban, South Africa), Marija Vukoja (Sremska Kamenica, Republic of Serbia), Vicky Moore (Birmingham (West Midlands), United Kingdom), Flemming Madsen (Vanløse, Denmark)

11:45 Common discussion

Explanation on post-course assessment
Felip Burgos Rincon (Barcelona, Spain)

13:30 - 17:00 Session 484
Registration for this session is additional to the congress registration fee and is €122 on site, €110 standard.
Skills workshop: SW20 Clinical interpretation of spirometry results

Aims: Access educational materials here  To know how to interpret spirometry tests; to be able (1) to differentiate between poor technique and technical errors and abnormal spirometry by evaluating patterns in flow volume and volume time curves; and (2) to recognise abnormal from normal spirometry when interpreting curves and results tables by comparing the measured values with the reference values.

Disease(s): Airway diseases  Pulmonary vascular diseases  Sleep and breathing disorders

Chairs: Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Aisling McGowan (Dublin, Ireland)

13:30 Introduction
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Aisling McGowan (Dublin, Ireland)

13:45 Recognise technically poor traces and errors of measurement
Arne Drews (Grimma, Germany), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia)

14:05 Common discussion

14:15 Deciding on reference values and how to calculate them
Arne Drews (Grimma, Germany), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia)

14:40 Common discussion

14:50 Break

15:05 Look at F-V/V-T traces and describe the range of abnormal shapes
Arne Drews (Grimma, Germany), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Jana Kivastik (Tartu, Estonia), Ebymar Arismendi Nunez (Barcelona, Spain)

15:25 Common discussion

15:35 Describe the severity of any abnormality
Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Arne Drews (Grimma, Germany)

16:10 Common discussion

16:20 Write a spirometry report
Ebymar Arismendi Nunez (Barcelona, Spain), Jana Kivastik (Tartu, Estonia), Julie Lloyd (Birmingham (West Midlands), United Kingdom), Arne Drews (Grimma, Germany)

16:45 Common discussion

16:55 Explanation on post-course assessment
Brendan Cooper (Edgbaston (Birmingham), United Kingdom)
Meet the expert: ME9 Cryobiopsy in interstitial lung disease FULLY BOOKED

**Aims:** Access educational materials here to discuss how to safely perform the bronchoscopic cryobiopsy technique in interstitial lung disease, with a focus on patient selection (indications and contraindications), and to describe how to prevent and deal with possible complications.

**Disease(s):** Interstitial lung diseases

**Method(s):** Endoscopy and interventional pulmonology Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Pathologist, Patient, Radiologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs:** Lizzy Wijmans (Amsterdam, Netherlands)

**13:00** Cryobiopsy in interstitial lung disease

Venerino Poletti (Forlì, Italy)

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Meet the expert: ME10 Pulmonary arterial hypertension: treatment options FULLY BOOKED

**Current strategies and future perspectives**

**Aims:** Access educational materials here to summarise the current treatment strategies for pulmonary arterial hypertension (PAH) in light of the results of recent clinical trials, and to discuss ongoing investigations on different pathways that may shape future PAH treatment.

**Disease(s):** Pulmonary vascular diseases

**Method(s):** General respiratory patient care Transplantation

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Nurse, Patient, Physiotherapist, Student, Adult pulmonologist/Clinician

**Chairs:** Sheila Ramjug (Altrincham, United Kingdom)

**13:00** Pulmonary arterial hypertension: treatment options

Olivier Sitbon (Le Kremlin-Bicêtre, France)

---

Meet the expert: ME11 Management of severe asthma in children

**Aims:** Access educational materials here to discuss the definition of severe asthma in children and to describe the recommendations regarding the evaluation and treatment of these patients.

**Disease(s):** Airway diseases Paediatric respiratory diseases

**Method(s):** Epidemiology General respiratory patient care Public health Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Policy maker, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Raffaella Nenna (Rome, Italy)

**13:00** Management of severe asthma in children

Jonathan Grigg (London, United Kingdom)

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Meet the expert: ME12 Immunotherapies for lung cancer

**New diagnostic and therapeutic options**

**Aims:** Access educational materials here to provide profound insights into the new developments in the field of immunotherapy in lung cancer, and to describe solid diagnostic and therapeutic algorithms.
### 7.3U  Session 480  13:15 - 14:15

**Meet the expert: ME13 Management of pulmonary and critical care disease during pregnancy**

**Aims:** Access educational materials here  To understand the normal respiratory and cardiovascular physiology of pregnancy; to understand the management of asthma and venous thromboembolism during pregnancy; to explain the causes and management of acute respiratory failure during pregnancy.

**Disease(s):** Respiratory critical care

**Tag(s):** Clinical

**Target audience:** Critical/Intensive care physician, General practitioner, Nurse, Student, Trainee, Adult pulmonologist/Clinician, Patient

**Time:** 13:15  
**Duration:** 45 minutes

**Chair:** Jan C. Grutters (Nieuwegein, Netherlands)

**Presentations:**
- Lung nodules: an unusual cause  
  Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)
- Primary Pulmonary Amyloidosis - The experience at a tertiary hospital on the Gold Coast, Australia  
  Robert Carroll (Brisbane (QLD), Australia)
- CT and FDG PET/CT findings of pulmonary involvement in methotrexate-associated lymphoproliferative disease  
  Sachiko Matsubayashi (Tokyo, Japan)

---

### 7.2C  Session 367  07:00 - 08:15

**Challenging clinical cases: CC6 Interstitial lung diseases**

**Aims:** Access educational materials here  To present complex cases of rare ILDs and discuss in an interactive fashion. These cases were clinically very difficult, and the session will describe how the diagnosis was made, the radiological and pathological patterns in the case, and the pathogenetic mechanisms that were identified. The aim is to increase knowledge about the modalities that were used to build up the clinical reasoning and the biological mechanisms that may connect different disorders.

**Disease(s):** Interstitial lung diseases  
Pulmonary vascular diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Pathologist, Radiologist, Thoracic surgeon, Trainee

**Chairs:** Jan C. Grutters (Nieuwegein, Netherlands)

**Presentations:**
- Acute respiratory failure: 7 years after monolateral lung transplant for COPD  
  Claudia Ravaglia (Forlì, Italy)
- Lung nodules: an unusual cause  
  Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)
- Primary Pulmonary Amyloidosis - The experience at a tertiary hospital on the Gold Coast, Australia  
  Robert Carroll (Brisbane (QLD), Australia)
- CT and FDG PET/CT findings of pulmonary involvement in methotrexate-associated lymphoproliferative disease  
  Sachi Matsubayashi (Tokyo, Japan)

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### 7.2D  Session 368  07:00 - 08:15

**Challenging clinical cases: CC7 Severe asthma**

**Aims:** Access educational materials here  To present challenging cases of patients with severe asthma and comorbidity. It will address disease-specific challenges, including issues with compliance and risk management. To describe how the diagnosis was made and the pathogenetic mechanisms that may be involved. To increase also the knowledge about patients with severe asthma and the treatment approaches available.

**Disease(s):** Airway diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Nurse, Paediatrician, Trainee, Student

**Chairs:** Antonio Spanevello (Milan, Italy)

**Presentations:**
- Case 1  
  Pascal Chanez (Marseille, France)
### Case 2
Stephen James Fowler (Preston (Lancashire), United Kingdom)

#### Eosinophilic otitis media and eosinophilic asthma: shared pathophysiology and response to anti-IL5
Marieke T. Drijver-Messelink (Groningen, Netherlands)

#### Asthma evolution before and after diagnosis and treatment for Chronic eosinophilic leukemia
Cristina Calarasu (Craiova (Dolj), Romania)

#### ABPA diagnosis in a late onset, difficult to treat, asthma in a 84 year-old female
Konstantinos Eleftheriou (Athens, Greece)

### 7.3J Session 369 07:00 - 08:15

#### Challenging clinical cases: CC8 Non-resolving pneumonia

**Aims:** Access educational materials here  To review diagnosis and management of possible pulmonary and non-pulmonary causes of non-resolving pneumonia.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Student, Trainee

**Chairs:** Miquel Ferrer Monreal (Barcelona, Spain)

<table>
<thead>
<tr>
<th>Case</th>
<th>Author and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-responding pneumonia in a renal transplant patient</td>
<td>Rosario Menendez Villanueva (Valencia, Spain)</td>
</tr>
<tr>
<td>Respiratory organising pneumonia</td>
<td>Sebastian Ott (Bern, Switzerland)</td>
</tr>
<tr>
<td>Denosumab therapy recipient presenting with Cryptococcosis pneumonia with polymicrobial superinfection</td>
<td>Shiang-Fen Huang (Taipei, Taiwan)</td>
</tr>
<tr>
<td>Community-Acquired Pneumonia with Evolving Cavitation and Peripheral Eosinophilia</td>
<td>Alexander Ryu (Rochester, United States of America)</td>
</tr>
<tr>
<td>Recurrent pneumonia in a patient with HIV</td>
<td>Jorge Alberto Ordoñez Cardales (Bogotá, Colombia)</td>
</tr>
</tbody>
</table>

### 7.3A Session 372 08:30 - 10:30

#### Session: Pulmonary endoscopy

**Aims:** It is important to correctly diagnose and stage the many patients with suspected lung cancer that the clinician will encounter in pulmonary practice. The techniques that will be demonstrated in this session are confocal endoscopy, transparenchymal nodule access (TPNA), EBUS/EUS-B and advanced thoracoscopy. The aim is to demonstrate and comment on established methods such as EBUS and advanced thoracoscopy as well as to introduce the upcoming options such as confocal endoscopy and TPNA.

**Disease(s):** Thoracic oncology

**Tag(s):** Clinical

**Chairs:** Luc Thiberville (Rouen, France), Pallav L. Shah (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Procedure</th>
<th>Author and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>First procedure: confocal endoscopy</td>
<td>Luc Thiberville (Rouen, France)</td>
</tr>
<tr>
<td>09:00</td>
<td>Second procedure: transparenchymal nodule access (TPNA) for a single pulmonary nodule (SPN)</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
</tr>
<tr>
<td>09:30</td>
<td>Third procedure: staging with EBUS/EUS</td>
<td>Jouke T. Annema (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>10:00</td>
<td>Fourth procedure: local anaesthetic thoracoscopy</td>
<td>Nick Maskell (Bristol (Avon), United Kingdom)</td>
</tr>
</tbody>
</table>

### 7.3N Session 373 08:30 - 10:30

#### Symposium: State of the art session: Respiratory critical care

**Mechanical ventilation and beyond in acute and chronic respiratory failure**
Aims: This session will provide state of the art information on topics that relate to the ventilatory and non-ventilatory management of patients with acute and chronic respiratory failure. Key topics include ventilatory and non-ventilatory management strategies in acute respiratory distress syndrome (ARDS) (particularly in terms of preventing ventilator-induced lung injury); weaning from mechanical ventilation (with particular focus on the importance of the timing of tracheostomy); the delivery of non-invasive respiratory support by non-invasive ventilation (NIV) and high-flow nasal cannula (HFNC) in acute hypoxemic and hypercapnic respiratory failure; and the non-invasive ventilatory modalities that are available for chronic obstructive pulmonary disease (COPD) patients at home, both when they are stable and after they have had an acute exacerbation with persistent hypercapnia.

Disease(s): Respiratory critical care
Method(s): Respiratory intensive care
Tag(s): Clinical
Target audience: Critical/Intensive care physician, Adult pulmonologist/Clinician
Chairs: Marcus Schultz (Amsterdam, Netherlands), Lígia Helena Pires Vicente (Portimão, Portugal)

08:30 Ventilatory and non-ventilatory strategies in ARDS
Laurent Brochard (Toronto (ON), Canada)

09:00 Strategies for weaning from mechanical ventilation
Leo M.A. Heunks (Amsterdam, Netherlands)

09:30 Non-invasive respiratory strategies in acute respiratory failure
Stefano Nava (Bologna (BO), Italy)

10:00 Non-invasive ventilatory strategies in stable COPD
Wolfram Windisch (Cologne, Germany)

7.1A Session 374 08:30 - 10:30

Symposium: Proteases: at the cutting edge of lung disease

Aims: to provide an update on the pathological roles of proteases in lung diseases. Protease deregulation is a constant feature in acute and chronic lung diseases. Until recently, proteases were thought to simply act as protein-degrading enzymes. However, recent groundbreaking research has identified a variety of novel protease substrates that play important roles in lung pathophysiology. These findings suggest that proteases are actually critical pleiotropic orchestrators of the cell behaviour that leads to lung diseases. The symposium will describe and integrate these novel protease research findings. The aim is to bring together leading researchers from different fields of lung disease research with the hope of fostering the exchange of knowledge between not only basic and clinical researchers but also within the lung community.

Disease(s): Airway diseases Interstitial lung diseases
Method(s): Cell and molecular biology
Tag(s): Translational
Target audience: Clinical researcher, Scientist (basic, translational), Paediatrician
Chairs: Jean-Michel Sallenave (Paris, France), Stephen M. Stick (Perth (WA), Australia)

08:30 The proteasome - an intracellular protease that is dysregulated in lung diseases
Silke Meiners (München, Germany)

09:00 Neutrophil elastase and lung damage in cystic fibrosis
Marcus Mall (Berlin, Germany)

09:30 Coagulation proteases and idiopathic pulmonary fibrosis - the dangerous liaison
Keren Borensztajn (Paris, France)

10:00 The role of cathepsin S in lung disease
Clifford Taggart (Belfast (Belfast), United Kingdom)

7.1B Session 375 08:30 - 10:30

Symposium: GINA 2018 and beyond: shaping the future of asthma management

Aims: (i) To understand how to integrate risk reduction strategies into personalised asthma care; (ii) to explore the new GINA (Global Initiative to Asthma) 2018 pocket guide for difficult-to-treat and severe asthma and to understand how a design thinking approach can enhance the utility of clinical resources; (iii) to learn about implementation strategies for airway disease, including in low- and middle-income countries; and (iv) to learn about future plans for GINA and to understand how to improve the design of asthma research studies.
### Symposium: Accelerated ageing in lungs

**The key to chronic lung disease and comorbidities**

**Aims:** To discuss recent advances in our understanding of the molecular processes that underlie accelerated ageing and cellular senescence and how these processes may lead to chronic lung diseases such as chronic obstructive pulmonary disease (COPD), idiopathic pulmonary fibrosis, and pulmonary hypertension and their comorbidities. Since the elderly population, which is prone to multi-morbidity, is increasing, these diseases will become more and more important for respiratory and general physicians, particularly the latter.

**Disease(s):** Airway diseases, Interstitial lung diseases

**Method(s):** Cell and molecular biology, General respiratory patient care, Physiology

**Tag(s):** Basic science

**Target audience:** Clinical researcher, General practitioner, Pathologist, Patient, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Masakazu Ichinose (Sendai, Japan), Gaetano Caramori (Messina (ME), Italy)

#### Session 376 08:30 - 10:30

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>A personalised approach to risk reduction in asthma in GINA</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
<td>3545</td>
</tr>
<tr>
<td>09:00</td>
<td>A new GINA resource in 2018: a practical guide for assessing and managing difficult-to-treat and severe asthma</td>
<td>Jerry Krishnan (Chicago, United States of America)</td>
<td>3546</td>
</tr>
<tr>
<td>09:30</td>
<td>Hard talk: is GINA truly global? Successes and challenges</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>3547</td>
</tr>
<tr>
<td>10:00</td>
<td>GINA 2018 and beyond: the challenges of evidence-led innovation and leadership</td>
<td>Helen Reddel (Sydney (NSW), Australia)</td>
<td>3548</td>
</tr>
</tbody>
</table>

### Symposium: Prenatal origins of respiratory and atopic disorders

**Epidemiological and experimental evidence**

**Aims:** To educate the audience about the current state of knowledge concerning the early-life origins of respiratory and atopic disorders. The session will describe what we have learned from 1) epidemiological birth cohort studies: multiple approaches that can be used to strengthen causal inference with respect to prenatal exposures will be described, including Mendelian randomisation, gene-environment interactions, negative parental controls, sibling controls, twin studies and follow-up of children from prenatal intervention trials; 2) experimental studies in animals and humans: how animal models can complement epidemiology in the investigation of this topic will be discussed. The results from recent exciting trials on nutrient supplementation in pregnancy aimed at primary prevention of asthma will also be presented.

**Disease(s):** Airway diseases, Paediatric respiratory diseases

**Method(s):** Epidemiology, Public health

**Tag(s):** Translational

**Target audience:** Paediatrician, Scientist (basic, translational)

**Chairs:** Liesbeth Duijts (Rotterdam, Netherlands), Erik Melén (Stockholm, Sweden)
Using genetic epidemiology and existing trial cohorts to identify the prenatal causes of childhood respiratory and atopic disorders
Seif Shaheen (London, United Kingdom)

Using advanced family and twin designs to control for confounding of associations between prenatal risk factors and asthma
Catarina Almqvist Malmros (Stockholm, Sweden)

How animal models can complement epidemiology in furthering our understanding of the prenatal origins of respiratory disease
Susanne Krauss-Etschmann (Borstel, Germany)

Can nutrient supplementation in pregnancy prevent childhood asthma?
Hans Bisgaard (Hellerup, Denmark)

**Session 378 08:30 - 10:30**

Oral presentation: New perspectives on asthma, cough and laryngeal obstruction

**Disease(s):** Airway diseases

**Method(s):** Epidemiology Physiology General respiratory patient care Endoscopy and interventional pulmonology

**Chairs:** Roberto A. Rabinovich (Edinburgh (Scotland), United Kingdom), Georgios Kaltsakas (Athens, Greece)

**Late Breaking Abstract - Unsupervised machine learning of novel emphysema subtypes: SPIROMICS**
R GRAHAM BARR (NEW YORK, United States of America), Jie Yang, Elsa Angelina, Pallavi Balte, Eric Hoffman, John Austin, Ben Smith, Eugene Bleecker, Russ Bowler, Chris Cooper, David Couper, Mark Dransfield, Meilan Han, Nadia Hansel, Fernando Martinez, Robert Paine, Prescott Woodruff, Victor Ortega, Andrew Laine

**OA3558**
Airway closure during metacholine challenge is correlated to body mass index
Roberto Torchio (Venaria Reale (TO), Italy), Laura Barroc, Carlotta Biglia, Claudio Ciacco, Marco Guglielmo, Fabio Luigi Massimo Ricciardolo

**OA3559**
Role of leptin and cysteinyl leukotrienes in the pathogenesis of exercise-induced bronchoconstriction in obese asthmatic children
Marwa Moaaz (Alexandria, Egypt), Ibrahim El-Akkary, Nader Fasseeh, Mohamed El-Ghazali, Ola Elgaddar

**OA3560**
The Effect of Bronchial Thermoplasty on Lung Function in Severe Asthma Patients
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Julia N.S. D’Hooghe, Annelies M. Slats, Joost G. Van Den Aardweg, Jouke T. Annema, Peter I. Bonta

**OA3561**
Modulation of Transient Receptor Potential Vanilloid-1 (TRPV1) response by inhaled prostaglandin-E2 and bradykinin
Filippo Liviero (Padova (PD), Italy), Maria Cristina Scarpa, Paola Mason, Gabriella Guarnieri, Piero Maestrelli

**OA3562**
Predictors of manually assisted effectiveness over mechanically assisted cough in ALS patients
Santos Ferrer Espinosa (Valencia, Spain), Jesus Sancho Chinesta, Enric Burés Sales, Emilio Servera Pieras

**OA3563**
Objective quantification and analysis of laryngeal obstruction using deep learning algorithms
Emil S. Walsted (Frederiksberg, Denmark), Jianyu Lin, Daniel S. Elson, James H. Hull

**OA3564**
The ventilatory pattern and the operational volumes during exercise in subjects with diagnosed exercise-induced laryngeal obstruction (ELO)
Antonella LoMauro (Milano (MI), Italy), Henrik Johansson, Andrei Malinovschi, Peter Frykholm, Elisabet Mallmin, Katarina Norlander, Andrea Aliverti, Leif Nordang

**Session 379 08:30 - 10:30**

Oral presentation: Notable Studies in Asthma

**Disease(s):** Airway diseases

**Method(s):** Physiology Imaging Cell and molecular biology General respiratory patient care

**Chairs:** Subhabrata Moitra (Barcelona, Spain), Paul O’Byrne (Hamilton (ON), Canada)

**OA3565**
Late Breaking Abstract - Airway sensory innervation is increased in chronic cough
Emily Blum (Portland, United States of America), Matthew Drake, Allison Fryer, David Jacoby, Richard Costello

**OA3566**
Late Breaking Abstract - Long-term safety & durability of mepolizumab in life-threatening/seriously debilitating severe eosinophilic asthma (SEA): COSMEX
Frank Albers (Chapel Hill, United States of America), Sandhya Khurana, Eric Bradford, Martyn Gilson, Robert Price, Guy Brusselle, Elisabeth Bel, J Mark Fitzgerald, Matthew Masoli, Stephanie Korn, Marc Humbert
Late Breaking Abstract - Long-term safety and efficacy of benralizumab in severe, uncontrolled asthma: first results of BORA, a randomized, Phase III extension study
William Busse (Madison, United States of America), Eugene R. Bleecker, J. Mark Fitzgerald, Gary T. Ferguson, Peter Barker, Stephanie Sproule, Richard F. Olsson, Mitchell Goldman, Ubaldo Martin, On Behalf Of The Bora Study Investigators

Late Breaking Abstract - Patients with severe eosinophilic asthma benefit from the treatment with Anti-IL-5 Reslizumab – a real life study from Austria
Katharina Marth (WIEN, Austria), Andreas Renner, Karin Patocka, Wolfgang Pohl

Late Breaking Abstract - Transcriptomic Profiling of Severe Asthma using Artificial Intelligence techniques
Mahmood Hachim (Sharjah, United Arab Emirates), Bassam Mahboub, Rifat Hamoudi, Saba Al Heialy, Qutayba Hamid Hamid

Late Breaking Abstract - Longitudinal analysis of variation in clinical features from the U-BIOPRED severe asthma cohort

Late Breaking Abstract - Gender and asthma: Gender-dependent effects of obesity on allergic pulmonary inflammation
Rodrigo Lacerda (Campinas, Brazil), Yanira Vasquez, Gabriel Anhê, Clive Page

Late Breaking Abstract - Which treatable traits matter? Prevalence of treatable traits and risk of exacerbation in a random population sample with asthma
James Fingleton (Wellington, New Zealand), Saras Mane, Jo Hardy, Christina Baggott, Mathew Williams, Ruth Semprini, Irene Braithwaite, Justin Travers, Mark Weatherall, Richard Beasley

Symposium: Microorganisms and lung ecology: living in peace with bugs
Aims: To improve the understanding of (i) the subtle interactions between humans and microorganisms both within and outside the context of infections; (ii) how the respiratory immune system can move from homeostasis to dysbiosis; (iii) the roles that the interactions between humans and microorganisms play in the pathogenesis and natural history of pneumonia and chronic noncommunicable respiratory diseases; and (iv) the potential of treatments that modulate the microbiome.

Disease(s): Airway diseases, Respiratory infections
Method(s): Cell and molecular biology, Physiology, Transplantation
Tag(s): Translational
Target audience: Clinical researcher, Pathologist, Scientist (basic, translational), Adult pulmonologist/Clinician
Chairs: Anh Tuan Dinh-Xuan (Paris, France), Nicolas Roche (Paris, France)

08:30 Host-microorganism interactions in lung homeostasis: the influence of age, microbes and the immune system
James D. Chalmers (Dundee (Angus), United Kingdom)

09:00 Dynamics of the human microbiome network
Karoline Faust (Leuven, Belgium)

09:30 Manipulating the microbiome to control human diseases
Patricia Lepage (Jouy en Josas, France)

10:00 Towards an ecology of the lung: new conceptual models of pulmonary microbiology and pneumonia pathogenesis
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

Oral presentation: Biomarkers in COPD and asthma
Disease(s): Airway diseases
Method(s): Physiology, Cell and molecular biology, Epidemiology, General respiratory patient care
Chairs: Stylianos Loukides (Athens, Greece), Andras Bikov (Budapest, Hungary)
Late Breaking Abstract - ENose based phenotyping of newly presented patients with asthma or COPD
Rianne de Vries (Amsterdam, Netherlands), Yennece W. F. Dagelet, Sigrid Kester, Johannes H. H. C. In ‘T Veen, Eric G. Haarman, Annelies Lucas, Frans H. C. De Jongh, Anke-Hilse Maitland-Van Der Zee, Peter J. Sterk

U-BIOPRED accessible handprint: combining omics platforms to identify stable asthma subphenotypes
Bertrand De Meulder (Vourles, France), Romain Tching Chi Yen, Chuan-Xing Li, Asa Wheelock, Kian Fan Chung, Ian Adcock, Ratko Djkjanovic, Scott Wagers, John Riley, Veit Erpenbeck, Per Bakke, Massimo Caruso, Pascal Chanez, Sven-Erik Dahlén, Stephen Fowler, Ildiko Horvath, Norbert Krug, Paolo Montuschi, Marek Sanak, Thomas Sandström, Dominic Shaw, Florian Singer, Ioannis Pandis, Aruna Bansal, Peter Sterk, Frédéric Baribaud, Charles Auffray

Ezrin, a membrane cytoskeleton cross linker protein, as a marker of epithelial damage in asthma
Xin Yao (Nanjing (Jiangsu), China), Man Jia, Xiaoyi Yan, Xinyu Jiang, Jie Jiang, Xia Shan, Xiwei Zhang, Ian Adcock, Mao Huang

Markers of systemic inflammation are associated with increased symptoms and respiratory exacerbations among smokers with preserved spirometry in SPIROMICS
Stephanie Christenson (San Francisco, United States of America), Suresh Garudadi, Prescott G. Woodruff, Meilan K. Han, R. Graham Barr, Eugene Bleecker, Russell Bowlwer, Alejandro Comellas, Christopher B. Cooper, Gerard Criner, Mark Dransfield, Nadia N. Hansel, Robert Paine, Jerry A. Krishnan, Stephen Peters, Fernando Martinez, Jeff Curtis, Annette Hastie, Wanda O’Neal, David Couper, Neil E. Alexis

Investigating the reproducibility of real time breath measurement using proton transfer reaction - time of flight - mass spectrometry for breath volatile organic compounds in COPD Patients.
Luke Bryant (Leicester (Leicestershire), United Kingdom), Liesl Carr, Ahmed Yousuf, Rebecca Cordell, Michael Wilde, Christopher Brightling, Paul Monks

Association between exhaled volatile organic compounds and urinary levels of oral corticosteroids within the U-BIOPRED Cohort
Paul Brinkman (Amsterdam, Netherlands), Waqar Ahmed, Cristina Gómez, Hugo H. Knobel, Hans Weda, Teunis J. Vink, Tamara M. Nijsen, Craig E. Wheelock, Sven-Erik Dahlén, Paolo Montuschi, Richard G. Knowles, Susanne J. Vijverberg, Anke H. Maitland-Van Der Zee, Peter J. Sterk, Stephen J. Fowler

Temporal Fluctuations of Electronic Nose Signatures in Patients with Asthma and Healthy Controls Challenged With Rhinovirus
Anirban Sinha (Amsterdam, Netherlands), Rianne De Vries, J W. F. Dagelet, Urs Frey, Rene Lutter, Anke-Hilse Maitland-Van Der Zee, Peter J. Sterk, Faculty of Medicine, University of Patras,Rion), Marina Lianou (pha2306@upnet.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Vassilios Papaleonidopoulos (papaleovr@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Georgia Giotopoulou (giotopoulou.g@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Katerina Kauka (katerinakauka2@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Ioanna Giopanou (giopanou@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Magda Spella (magss@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Antonia Maraziotti (amaraziotti@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Ioannis Lilis (ioannislilis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras,Rion), Georgios Stathopoulos (gstathop@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Comprehensive Pneumology Center, Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL) ,Rion)

Searching for inflammatory and oxidative-stress markers capable of clustering severe asthma.
Giulia Scioscia (Lucera (FG), Italy), Giovanna Elisiana Carpagnano, Donato Lacedonia, Grazia Cotugno, Sonia Santamaría, Mariapia Venuuti, Annarita Depalo, Maria Cristina Colanardi, Maria Pia Foschino Barbaro

Oral presentation: New ideas about respiratory and sleep physiology in children

Disease(s) : Sleep and breathing disorders
Method(s) : Epidemiology Public health General respiratory patient care Physiology
Chairs : Graham Hall (Perth (WA), Australia), Refika Hamutcu Ersu (Istanbul, Turkey)

Late Breaking Abstract - Sensibility and specificity of the “SLEEP CLINICAL RECORD” Protocol in Brazilian children.
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Camila Castro Correa, Melanie Evangelisti, Maria Pia Villa

Glutathione s-transferase genotype determines lung function deficits from infancy to adulthood in those with in utero tobacco exposure
Louisa Owens (Sydney (NSW), Australia), Ingrid Laing, Jasminka Murdzoska, Guicheng Zhang, Peter Lesouef
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA3587</td>
<td>Should bronchodilator response be assessed in all asthmatic children with normal baseline spirometry?</td>
<td>Nicole Beydon (Paris, France), Edouard Dufetelle, Plamen Bokov, Christophe Delclaux</td>
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<tr>
<td>OA3588</td>
<td>Lingual frenulum evaluation in school age children with and without sleep disordered breathing</td>
<td>Melania Evangelisti (Roma (RM), Italy), Mario Barreto, Manuela Cecili, Emanuela Scopelliti, Maria Pia Villa</td>
</tr>
<tr>
<td>OA3589</td>
<td>Management of upper airway obstruction in infants with Robin sequence in the United Kingdom</td>
<td>Marie Wright (London, United Kingdom), Sheila Javadpour, Patricia Jackson, Edile Murdoch, Felicity Mehendale, Don Urquhart</td>
</tr>
<tr>
<td>OA3590</td>
<td>Validation of the hypoxia challenge test for preterm infants.</td>
<td>Maureen Verheggen (Nedlands (WA), Australia), Tolu Okitika, Claire Shackleton, Rhea Urs, Mary Sharp, Graham Hall</td>
</tr>
<tr>
<td>OA3591</td>
<td>Variability of tidal breathing parameters in preterm infants and associations with respiratory morbidity during the first year of life: a cohort-study</td>
<td>Jakob Usemann (Basel, Switzerland), Andrea Suter, Emanuela Zannin, Elena Proietti, Sotirios Fouzas, Sven Schulzke, Philipp Latzin, Urs Frey</td>
</tr>
<tr>
<td>OA3592</td>
<td>Role of CO2 monitoring in the diagnosis and management of paediatric sleep disordered breathing</td>
<td>Federica Trucco (Genova (GE), Italy), Andrew Bush, Hui-Leng Tan</td>
</tr>
</tbody>
</table>

### 7.3O Session 383 08:30 - 10:30

**Oral presentation: Acute pulmonary embolism: from diagnosis to treatment**

**Disease(s):** Pulmonary vascular diseases, Respiratory critical care  
**Method(s):** Imaging, General respiratory patient care  
**Chairs:** Philippe Girard (Paris, France), Luke Howard (London, United Kingdom)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA3593</td>
<td>Late Breaking Abstract - An evaluation of standard UK pulmonary rehabilitation post pulmonary embolism</td>
<td>Laura Moth (London, United Kingdom), Lynn Mcdonnell, Leyla Osman, Philip Marino, Gill Arbane, George Kaltsakas, Bhashkar Mukherjee</td>
</tr>
<tr>
<td>OA3594</td>
<td>Does simplified Well’s score combined with age-adjusted d-dimer reduce inappropriate CT pulmonary angiogram and incidence of contrast induced nephropathy?</td>
<td>Zeeshan Mustafa (Stoke-on-Trent (Staffordshire), United Kingdom), Asim Ahmed, Qandeel Khan, Shahbaz Piracha, Azam Saied, Mohammed Haris, Muhammed Iqbal, Badar Ganaie</td>
</tr>
<tr>
<td>OA3595</td>
<td>An audit of requests for CT Pulmonary Angiogram in haemodynamically stable non-pregnant patients with suspected pulmonary embolism</td>
<td>Julian Cassar (Balzani, Malta), Joelle Azzopardi, Gabriel Degiorgio, Gabriel Borg, Paula Grech, Kyra Bartolo, Brendan Caruana Montalbo</td>
</tr>
<tr>
<td>OA3596</td>
<td>A radiomics nomogram based on CT pulmonary angiographic data for predicting adverse outcomes in non-high-risk acute pulmonary embolism patients</td>
<td>Gang Hou (Shenyang (Liaoning), China), Xiaoming Zhou</td>
</tr>
<tr>
<td>OA3597</td>
<td>The prognostic value of Red cell distribution width(RDW) in acute pulmonary thromboembolism</td>
<td>samaneh parsa (tehran, Islamic Republic of Iran), Nasibe Hussain, Soheil Peiman</td>
</tr>
<tr>
<td>OA3598</td>
<td>Determinants and prognostic impact of diagnostic delay in pulmonary embolism</td>
<td>Celine GOYARD (Boulogne, France), Benoit Cote, Vincent Looeten, Anne Roche, Jean Pastre, Jonathan Marey, Benjamin Planquette, Guy Meyer, Olivier Sanchez</td>
</tr>
<tr>
<td>OA3599</td>
<td>Prognostic role of respiratory failure in acute pulmonary embolism: a pulmonologist’s point of view</td>
<td>Roberta Pancani (Pontedera (PI), Italy), Liliana Villari, Ferruccio Aquilini, Alessandro Celi, Antonio Palla</td>
</tr>
<tr>
<td>OA3600</td>
<td>The evaluation of medication adherence in patients with pulmonary thromboembolism</td>
<td>Ilknur Basyigit (Kocaeli, Turkey), Serap Argun Baris, Tuba Ciftci, Serhat Ozgun, Hasim Boyaci</td>
</tr>
</tbody>
</table>

### 7.3P Session 384 08:30 - 10:30

**Oral presentation: Paediatric respiratory infections: translational and clinical perspectives**

**Disease(s):** Respiratory infections, Respiratory infections  
**Method(s):** Cell and molecular biology, General respiratory patient care, Epidemiology  
**Chairs:** Ricardo Miguel Ribeiro Marques Cunha Fernandes (Lisboa, Portugal), Marijke Proesmans (Leuven, Belgium)
Late Breaking Abstract - Microsimulation model of future trends in CF burden and demography in France
Pierre-Régis Burgel (Sorbonne Paris Cité, France), Marc Massetti, Henri Leleu, Lydie Lemonnier, Brigitte Menoret-Calles, Michel Abely, Anne Farge, Isabelle Durieu

Microbiome Characteristics of Induced Sputum compared to Bronchial Fluid and Upper Airway Samples
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Adilia Warris, Shi-Qi An

Assessing polymicrobial interactions in a 3D primary airway epithelial cell model
Matthew Wee-Peng Poh (Subiaco (WA), Australia), Angela Fonceca, Anthony Kicic, Mark Everard

Interferon-stimulated gene expression differs in bronchiolitis caused by RSV-A strains NA1 and ON1
Alessandra Pierangeli (Rome, Italy), Carolina Scagnolari, Camilla Bitossi, Agnese Viscido, Antonella Frassinato, Laura Petrarca, Raffaella Nenna, Fabio Midulla

Blood gas analysis as a marker of severity in acute bronchiolitis
Stefan Ünger (Edinburgh (Edinburgh), United Kingdom), Christopher Halliday, Ashkan Ziaie, Steve Cunningham

"Effects" of bronchiolitis on ventilation inhomogeneity (VI) at preschool age: comparison of Multiple Breath Washout (MBW) between post-bronchiolitis, cystic fibrosis and healthy children
Giulia Cangiano (Verona (VR), Italy), Riccardo Guarise, Antonella Borruso, Laura Menin, Gloria Tridello, Paolo Biban, Ciro D’Orazio, Fabio Midulla, Sonia Volpi

Infant bronchiolitis increases the risk of reduced lung function at age 10-13 years
Eero Laukhonen (Tampere, Finland), Riikka Riikonen, Eero Laukhonen, Sari Törmänen, Katri Backman, Petri Koponen, Merja Helminen, Kirsi Nuolivirta, Matti Korppi

Outcomes in protracted bacterial bronchitis (PBB): a five year prospective cohort study
Thomas Ruffles (Brisbane (QLD), Australia), Julie Marchant, Ian Masters, Helen Buntain, Greta Busch, John Upham, Danielle Wurzel, Stephanie Yerkovich, Peter Gibson, Katie Baines, Simpson Jodie, Susan Pizzutto, Sandra Hodge, Greg Hodge, Anne Chang

Poster discussion: Interdependence of COPD and comorbidities and the underlying mechanisms

Comparative analysis of rhythm disturbances in patients with chronic obstructive pulmonary disease (COPD).
Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Aleksandra Balitskaya, Antonina Berdyugina, Valeriy Elykomov, Andrew Zateev

COPD in patients evaluated for stable myocardial ischemia – observational study
Viktor Hamrefors (Malmö, Sweden), Andreas Jonsson, Artur Fedorowski, Gunnar Engstrom, Per Wollmer

Remodeling of common carotid and common femoral arteries in COPD patients without previously diagnosed cardiovascular diseases (CVD).
Sergey Avdeev (Moscow, Russian Federation), Viliya Gaynitdinova, Natalya Tsareva, Zamira Merzhoeva

The role of interleukin 6 on incident atrial fibrillation in COPD patients
Maxim Grymonprez (Diksmuide, Belgium), Vincent Vakaet, Maryam Kavousi, Bruno H. Stricker, M. Arfan Ikram, Jan J. Heeringa, Oscar H. Franco, Guy G. Brusselle, Lies Lahousse

Mechanisms of Cardiac arrhythmias in patients with chronic obstructive disease (COPD)
Jihen Ben Amar (Tunis, Tunisia), Asma Saidane, Haifa Zaibi, Manel Ben Halima, Sana Ouali, Mohamed Sami Mourali, Besma Dhahri, Hichem Aouina

Association of phase angle and hypoxemia in ambulatory patients with chronic obstructive pulmonary disease and heart failure.

Chronic obstructive pulmonary disease and cardiac remodeling: gender aspect.
Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Aleksandra Balitskaya, Antonina Berdyugina, Valeriy Elykomov, Andrew Zateev
Prevalence of comorbidities in established and newly treated patients with COPD according to GOLD 2017 in a UK primary care population
David M. G. Halpin (Exeter Devon, United Kingdom), Hilda De Jong, Victoria Carter, Derek Skinner, David Price

Microvascular coronary perfusion and hyperinflation in COPD – data from the LEAD (Lung, hEart, sociAl, boDy) study
Matthias Urban (Wien, Austria), Marie Kathrin Breyer, Robab Breyer-Kohansal, Alina Ofenheimer, Sylvia Hartl, Otto Chris Burghuber

Impact of chronic obstructive pulmonary disease in hospitalized patients who undergo transcatheter aortic valve implantation
Alicia Oliva Ramos (Rivas-Vaciamadrid, Spain), Javier De Miguel Diez, Elena Rodríguez Jimeno, Alicia Cerezo Lajas, Laura Ramirez Garcia, Luis Puente Maesta, Ana López De Andrés, Valentin Hernández Barrera, Rodrigo Jiménez Garcia

COPD in symptomatic aortic stenosis: the importance of correct assessment for defining prognosis
Marzia Rigolli (Oxford (Oxfordshire), United Kingdom), Andrea Rossi, Pier Luigi Temporelli, Giovanni Benfari, Giovanni Cioffi, Nicola Gaibazzi, Stefano Nistri, Federica Guidetti, Luigi Tavazzi, Saul Myerson, Mona Bafadhel, Pompilio Faggiano

Metabolic Syndrome negatively affects pulmonary function in COPD patients
Maria Rosaria Vulpi (Toritto (BA), Italy), Vito Liotino, Anna Castrovilli, Cosimo Tortorella, Giuseppina Piazzolla, Mafalda Candigliota, Onofrio Resta

COPD in symptomatic aortic stenosis: the importance of correct assessment for defining prognosis
Marzia Rigolli (Oxford (Oxfordshire), United Kingdom), Andrea Rossi, Pier Luigi Temporelli, Giovanni Benfari, Giovanni Cioffi, Nicola Gaibazzi, Stefano Nistri, Federica Guidetti, Luigi Tavazzi, Saul Myerson, Mona Bafadhel, Pompilio Faggiano

Osteoporosis onset in patients prescribed ICS for COPD: matched cohort study
Jaco Voorham (Singapore, Singapore), David Price, Jaco Voorham, Guy Brusselle, Andreas Clemens, Robert Fogel, Hye Yun Park, Jeffrey Stephens, Nicolas Roche

Visceral adiposity index in patients with chronic obstructive pulmonary disease
Orhan Altiņöz (Hatay, Turkey), Sakir Ozgur Keskek

Non-traumatic vertebral fractures among COPD patients
Lilach Israeli-Shani (Tel Aviv, Israel), Matthew Koslow, Gali Epstein-Shochet, Ori Wand, David Shitrit

Testosterone levels and their association with COPD severity: A cross sectional study
Horacio Matias Castro (Ciudad Autónoma Buenos Aires, Argentina), Joaquin Maritano Fucarda, Pablo Knoblovits, Sebastian Suarez, Pablo Costanzo

Lung cancer screening in COPD patients.
Maria Pascarella (Basel, Switzerland), Desiree Schumann, Aline Stalder-Siebereichler, Eleni Papakonstantinou, Corinne Girov, Nora Oertli, Michael Tamam, Daiana Stolz

Lung Cancer Screening Programs: a missed “window” to diagnose Obstructive Lung Disease. The NLST-ACRIN experience.
Juan Pablo de Torres (Pamplona (Navarra), Spain), Juan Wisnivesky, David Wilson, Ciro Casanova, Jose Maria Marin, Victor Pinto Plata, Miguel Divo, Francesca Polverino, Carlos Cabrera, Javier Zulueta, Bartolome Celli, Gorka Bastarrika

Terminal 7
Session 386 08:30 - 10:30

Oral presentation: Muscle adaptations in response to physiotherapeutic interventions in acute and chronic settings

Disease(s): Airway diseases, Respiratory critical care, Interstitial lung diseases
Method(s): General respiratory patient care, Respiratory intensive care, Physiology, Cell and molecular biology

Chairs: Wendy Darlene Reid (Toronto ON, Canada), Heleen Demeyer (Leuven, Belgium)

Late Breaking Abstract - Carnosine and related compounds in m. vastus lateralis of COPD patients: preliminary results
Jana De Brandt (Dietpenbeek, Belgium), Chris Burtin, Frank Vandenabeele, Joseph Aumann, Laura Blancquarert, Jan Stautemas, Wim Derave, Martijn Spruit

Early NeuroMuscular Electrical Stimulation reduces muscle mass loss in Critically Ill patients.
Johan Segers (Leuven, Belgium), Daniel Langer, Noppawan Charususin, Bregie Frickx, Inge Demeyer, Beatrix Clerckx, Greet Van Den Berghe, Ilse Vanhorebeek, Greet Hermans, Rik Gosselink

Effects of early passive cycling exercise on quadriceps femoris thickness in critically ill patients: a controlled randomized pilot study
Isabella Albuquerque (Santa Maria (RS), Brazil), Janice Soares, Dulciane Paiva, Dannuey Cardoso, Mauricio Ximenes Carvalho
Effectiveness of four early-rehabilitation techniques in sedated and ventilated patients in ICU
Clement Medrinal (LE HAVRE, France), Yann Combret, Guillaume Prieur, Aurora Robledo Quesada, Tristan Bonnevie, Francis Edouard Gravier, Elise Dupuis, Eric Frenoy, Olivier Conatal, Bouchra Lamia

Neural or muscular adaptations to low-load/high-repetition knee extension training in people with COPD
Andre Nyberg (Umeå, Sweden), Didier Saey, Mickaël Martin, Mathieu Morisette, François Maltais

Test-retest reliability of three strategies to measure quadriceps muscle endurance in people with COPD
Erik Frykholm (Umeå, Sweden), Sarah Gephine, Didier Saey, Hieronymus W.H. Van Hees, Peter Klijn, François Maltais, Arthur Lemson, Andre Nyberg

Skeletal limb muscle oxygenation and regional blood volume during incremental loading in interstitial lung disease
Lisa Wickerson (Toronto (ON), Canada), Dina Brooks, Sunita Mathur, Lianne Singer, John Granton, Darlene Reid

Inspiratory muscle effort, perfusion and oxygenation responses to inspiratory muscle training (IMT) with Tapered Flow Resistant Loading (TFRL) and Normocapnic Hyperpnea (NH) in COPD.
Zafeiris Louvaris (Leuven, Belgium), Sauwaluk Dacha, Lotte Janssens, Rik Gosselink, Ioannis Vogiatzis, Daniel Langer

Session 387 08:30 - 10:30
Poster discussion: Additional latest insights in pulmonary rehabilitation for chronic lung diseases
Disease(s): Airway diseases  Respiratory infections  Respiratory infections
Method(s): Epidemiology  Physiology  Public health  General respiratory patient care
Chairs: Martijn A. Spruit (Horn, Netherlands), Beatriz Abascal Bolado (Santander (Cantabria), Spain)

Effect of a conical PEP-mask on dyspnea and exercise endurance in COPD patients: a randomized crossover trial
Chatchai Phimphasak (Khon Kaen, Thailand), Malipron Pukdeechat, David Jones, Chulee Ubolsakka-Jones

Characterization of motivation toward physical activity and sedentary behavior in patients admitted for a rehabilitation program
Guillaume Chevance (Lodeve, France), MéLissa Roux, Amandine Calvat, Julie Boiché, Nelly HéRaud

Bronchodilation or pulmonary rehabilitation: which test of exercise performance yields the greatest response for patients with stable COPD? An RCT.
Theresa Harvey-Dunstan (Leicester (Leicestershire), United Kingdom), Ruth M Tal-Singer, Mike I Polkey, Alan L Hamilton, Michael C Steiner, Michael D Morgan, Sally J Singh

Cardiovascular risk and exercise capacity in COPD
Yousef S Aldabayan (London, United Kingdom), Ahmed M Al Rajah, Abdelalah Aldhahir, Arthur Lemson, George Nava, Jeremy S Brown, John R Hurst

The COPD Assessment Test in patients with non-cystic fibrosis bronchiectasis undergoing pulmonary rehabilitation
Aaron Cole (Harrefield, United Kingdom), Claire M Nolan, Ruth E Barker, Sarah E Jones, Suhani Patel, Samantha S-C Kon, William D-C Man

Prevalence of physical limitation in COPD: the short physical performance battery (SPPB)
Victoria Benson (Uxbridge (Middlesex), United Kingdom), Divya Mohan, Matthew Allinder, Nicholas Galwey, Carmel Mceniry, Jonathan Fulld, Charlotte Bolton, William Macnee, John Cockroft, Ian Wilkinson, Ruth Tal-Singer, Michael Polkey

Impact of Physical Frailty on Pulmonary Rehabilitation and Hospitalisation in COPD
Kola Akinlabi (London, United Kingdom), Binny Patel, Ken Johnston, Bunmi Adebajo, Radoslav Trojan, Ahmed Alrajeh, Temitayo Magbagbeola, John R Hurst

Impact of mild cognitive impairment on health benefits 6 months after a rehabilitation program
Francois Alexandre (Lodeve, France), Thomas Henry, Laurene Charbonnel, Florence Dupuy, Philippe Guerin, Guillaume Chevance, Nelly Herault

Online coaching for physical activity in COPD patients: user engagement and determinants
Rita Priori (Eindhoven, Netherlands), Privender Saini, Marian Dekker, Lenneke Van Genumten, Mareike Klee

High flow nasal cannula during walking in severe COPD patients: a randomized controlled trial.
Veronica Rossi (Pavia (PV), Italy), Serena Cirio, Manuela Piran, Giuditta Bettinelli, Laura Zocchi, Piero Ceriana, Annalisa Carlucchi
PA3647 Relationship of the COTE index with pulmonary rehabilitation outcomes
Angela Burge (Prahran, Australia), Christine Mcdonald, Ajay Mahal, Catherine Hill, Annemarie Lee, Narelle Cox, Rosemary Moore, Caroline Nicolson, Paul O'Halloran, Aroub Lahham, Rebecca Gillies, Anne Holland

PA3648 Suitable questionnaires to measure quality of life in patients with asthma bronchial undergoing pulmonary rehabilitation
Larissa Schwarzkopf (Neuherberg, Germany), Boglárka Szentes, Nicola Lehbert, Michael Wittmann, Rupert Wagner, Dennis Nowak, Hermann Faller, Michael Schuler, Konrad Schultz

PA3649 Changes in cognitive function of cognitively impaired patients with COPD after Pulmonary Rehabilitation and 1-year follow-up
Vasileios Andrianopoulos (Schönau am Königsssee, Germany), Rainer Gloeckl, Tessa Scheeberger, Nadine Troeller, Ioannis Vogiatzis, Rembert Koczulla, Klaus Kenn

PA3650 Clustering of patients with end-stage chronic diseases by symptoms: a new approach to identify health needs.
Panaioitis Finamore (Roma (RM), Italy), Martijn Spruit, Jos Schols, Raffaele Antonelli Incalzi, Emiel Wouters, Daisy Janssen

PA3651 Spot Marching Exercise for home-based pulmonary rehabilitation in COPD: physical performance and quality of life
Chulee Jones (Khon Kaen, Thailand), Chatchai Phimphasak, Maliporn Pukdeechat, David Jones

PA3652 Predictors of daily physical activity in COPD patients undergoing pulmonary rehabilitation
Georgios Kaltsaksas (Athens, Greece), Maroula Vasilopoulou, Zafeiris Louvaris, Nikolaos Chynkiamis, Stavroura Spetsioli, Eleoni Kortianou, Sofia-Antiopi Gennimata, Anastasios Palamidas, Andriana I. Papaioannou, Nickolaos G. Koulouris, Ioannis Vogiatzis

PA3653 Responsiveness of the EQ-5D to Pulmonary Rehabilitation (PR)
Laura Moth (London, United Kingdom), Lauren Hogg, Lynn Mcdonnell, Leyla Osman

7.2B Session 388 08:30 - 10:30
Poster discussion: CTD-ILD and hypersensitivity pneumonitis: from the bench to the bedside
Disease(s) : Interstitial lung diseases, Airway diseases
Method(s) : Epidemiology, Physiology, Cell and molecular biology, General respiratory patient care, Endoscopy and interventional pulmonology, Imaging
Chairs: Elena Bargagli (Firenze (FI), Italy), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

PA3653 Late Breaking Abstract - SMOKING PREVALENCE AND CHARACTERIZATION OF PATIENTS AT DIAGNOSIS OF DIFFUSE INTERSTITIAL LUNG DISEASES
J. Sellares (Barcelona, Spain), Núria Albacar Inglà, S. Cuerpo, F. Hernández-González, E. Barbeta, C. Lucena, M. Boada, G. Espinosa, R. Castellanos, O. Viñas, A. Xaubet, C. Agustí, C. Lucena, M. Boada

PA3654 LSC - 2018 - Physical and biochemical interactions drive fibrocytes accumulation in the scleroderma lung matrix
Huanxing Sun (New Haven, United States of America), Julika Winkler (julika.winkler@yale.edu / Yale University, New Haven), Maksym Minasyan (maksym.minasyan@yale.edu / Yale University, New Haven), Hongyi Pan (hongyi.pan@yale.edu / Yale University, New Haven), Omkar Desai (omkar.desai@yale.edu / Yale University, New Haven), Amanda Pellowe (amanda.pellowe@yale.edu / Yale University, New Haven), Jia Li (jia.li.2875@yale.edu / Shanghai Jiao Tong University, Shanghai), Xueyan Peng (xueyan.peng@yale.edu / Yale University, New Haven), Anjelica Gonzalez (anjelica.gonzalez@yale.edu / Yale University, New Haven), Erica Herzog (ERICA.HERZOG@YALE.EDU / Yale University, New Haven)

PA3655 Confocal Laser Endomicroscopy (CLE) for Differentiating the Underlying Cause of Ground Glass Opacities in ILD Patients
Lizzy Wijmans (Amsterdam, Netherlands), Daniel De Bruin, Joris Roelofs, Inge Van Den Berk, Rene Jonkers, Peter Bonta, Venerino Poletti, Jouke Anema

PA3656 Nintedanib inhibits contractile activity of lung myofibroblasts in a cellular model of scleroderma associated pulmonary fibrosis
Galina Bogatkevich (Charleston, United States of America), Ilia Atanelishvili, Tanjina Akter, Lutz Wollin, Richard M Silver

PA3657 Significance of pulmonary involvement in systemic sclerosis (SSc) – data from the German SSc-network
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA3658</td>
<td>Health care resources utilisation and costs in patients with non-IPF progressive fibrosing interstitial lung disease</td>
<td>Amy Olson (Denver, United States of America), Toby Maher, Margaret Salisbury, Valentina Acciai, Baher Mounir, Manuel Quaresma, Leila Zouad-Lejour, Christopher Wells, Aryeh Fischer</td>
</tr>
<tr>
<td>PA3659</td>
<td>Incidence, comorbidity and survival rate of hypersensitivity pneumonitis: A population-based study</td>
<td>Anne Hald Rittig (Århus N, Denmark), Ole Hilberg, Anders Løkke</td>
</tr>
<tr>
<td>PA3660</td>
<td>The antifibrotic effect of Imatinib loaded CD44 targeted gold nanoparticles (Im-CD44-GNP) relies on alveolar macrophage regulation</td>
<td>Federica Meloni (Pavia (PV), Italy), Monica Morosini , Veronica Codullo, Vanessa Frangipane, Sara Magni, Helios Recalde, Simona Inghilleri, Giuditta Comolli, Emanuela Cova, Carlomaurizio Montecucco , Miriam Colombo , Davide Prosperi</td>
</tr>
<tr>
<td>PA3661</td>
<td>Functional analysis of ABCA3 in phosphatidylcholine metabolism</td>
<td>Yang Li (, China), Susanna Kinting, Stefanie Hoeppner, Matthias Griese</td>
</tr>
<tr>
<td>PA3662</td>
<td>A retrospective clinical review of drug induced interstitial lung disease at a tertiary cancer centre</td>
<td>Fiona Walker (Manchester (Greater Manchester), United Kingdom), Rachel Broadbent, Ben Taylor, Sean Tenant, Kim Linton</td>
</tr>
<tr>
<td>PA3663</td>
<td>Prognostic factors in Korean patients with chronic hypersensitivity pneumonitis</td>
<td>Yeon joo Kim (Seoul, Republic of Korea), Jooae Choe, Eun Jin Chae, Joon Seon Song, Dong Soon Kim, Jin Woo Song</td>
</tr>
<tr>
<td>PA3664</td>
<td>Serum KL-6 as a marker of disease progression in SSC-ILD</td>
<td>Carmel Stock (London, United Kingdom), Rachel Hoyles, Cecile D'Accord, Maria Kokosi, Veronica Alfieri, Corrado Campochiaro, Jackie Donovan, Letizia Mori, Toby M Maher, Vasilis Kouranou, George Margaritopoulos, Peter M George, Philip L Molyneaux, Felix Chua, Voon Ong, Christopher P Denton, Athol U Wells, Elizabetta A Renzoni</td>
</tr>
<tr>
<td>PA3665</td>
<td>Effect of genotype on hypersensitivity pneumonitis despite treatment.</td>
<td>Martina Sterclová (Praha, Czech Republic), Martin PetřEK, Amit Kishore, Jelena Skibova, Martina Vasakova</td>
</tr>
<tr>
<td>PA3666</td>
<td>Anti-CTGF antibody attenuates silica-induced lung fibrosis in rats</td>
<td>Kenneth Lipson (San Francisco, United States of America), Xiuqing Cui, Zhe Peng, Yun Zhou, Hai Zhang, Yuewei Liu</td>
</tr>
<tr>
<td>PA3667</td>
<td>Impact of a specialist respiratory pharmacist in the management of interstitial lung disease</td>
<td>Mariam Naqvi (London, United Kingdom), Grainne D'Ancona, Alex West</td>
</tr>
<tr>
<td>PA3668</td>
<td>A case series study on re-treatment to lung cancer after drug-induced interstitial lung disease</td>
<td>Satoru Terada (Tenri Nara, Japan), Takashi Hajoiro, Hitetaka Yutani, Masakuni Ueyama, Tomoko Nakamishi, Nobuyoshi Hamao, Takashi Inao, Yusuke Kaji, Takehiro Yasuda, Seisyu Hashimoto, Eisaku Tanaka, Yoshio Taguchi</td>
</tr>
<tr>
<td>PA3669</td>
<td>Impact Prognostic impact of comorbidities in patients with chronic Hypersensitivity Pneumonitis</td>
<td>Julia Wälshcer (Heidelberg, Germany), Benjamin Gross, Jacques Bruhwylter, Julie Morisset, Claus Peter Heussel, Felix Lasitschka, Felix J. Herth, Michael Kreuter</td>
</tr>
<tr>
<td>PA3670</td>
<td>Quality of life of the patients followed for diffuse interstitial pneumonitis with fibrosis</td>
<td>elhamdaoui lamye (casablanca, Morocco), Jabri Hasna, Elkhattabi Wiam, Afif Hicham</td>
</tr>
</tbody>
</table>

7.2C Session 389 08:30 - 10:30
Poster discussion: Drug-resistant tuberculosis

**Disease(s):** Respiratory infections, Respiratory critical care, Respiratory infections

**Method(s):** Surgery, Cell and molecular biology, Respiratory intensive care, Epidemiology, General respiratory patient care, Public health

**Chairs:** Giovanni Battista Migliori (Varese (VA), Italy), Gunar Günther (Windhoek, Namibia)

**Outcomes of 6-9-12 months’ bedaquiline-containing regimens in MDR/XDR TB after 24 months follow up**

Sergey Evgenievich Borisov (Moscow, Russian Federation), Alexey Filippov, Taysya Ivanushkina, Diana Ivanova, Yuliya Garmash

**Outcomes of drug-resistant TB cases undergoing bedaquiline (BQ)-treatment and adjunctive surgery**

Experience of treatment Pre-XDR and XDR-TB/HIV co-infection with bedaquiline and delamanid containing regimens in Georgia
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Natalia Bolokadze, Nino Kiria, Lali Mikiaashvili

Mariya Pavlova (St. Petersburg, Russian Federation), Irina Chernokhaeva, Anna Starshinova, Nadezha Sapozhnikova, Liudmila Archakova, Evgenia Istomina, Elena Ershova

DISCREPANCY ACROSS PHENOTYPIC AND GENOTYPIC RESULTS OF DRUG SUSCEPTIBILITY TESTING OF MYCOBACTERIUM TUBERCULOSIS
Valeriu Crudu (Chisinau, Republic of Moldova), Sofia Alexandru, Alexandru Codreanu, Nelly Ciobanu, Dumitru Chesov, Valentina Vilc, Ana Donica, Elena Romanencenco, Ecaterina Noroc, Nadejda Turcan, Christoph Lange

Genotypic and phenotypic drug resistance of M.tuberculosis in patients registered in Moscow, Russia
Evgeny Belilovskiy (Moscow, Russian Federation), Maria Krasnova, Anastasia Khakhalina, Sergey Borisov, Svetlana Safonova, Elena Nosova

Risk factors associated with MDR-TB deaths in Romania - 6 years retrospective study
Ramona Elena Nedelcu (Bucuresti, Romania), Adriana Socaci

Molecular analysis of mutations in genes associated with multidrug-resistance in Mycobacterium tuberculosis isolates from patients with tuberculosis in Moscow region, Russia
Maria Alvarez Figueroa (Pushkino (Moscow Oblast), Russian Federation), Ruslan Ludannyy, Sergey Popov, Igor Mokrousov, Anna Vyazovaya, German Shipulin

Early experience with the implementation of the WHO shorter MDR-TB treatment regimen in Singapore
Hoi Wah She (Singapore, Singapore), Yee Tang Wang, Suay Hong Gan, Angeline Poh Gek Chua, Cynthia Bee Eng Chee

Bacteriological conversion in XDR-TB and RR-TB patients with fluoroquinolone resistance treated with and without new and repurposed anti-TB drugs in Azerbaijan prisons
Alan Altraja (Tartu, Estonia), Elmira Gurbanova, Rafail Mehdiyev, Kai Blöndal

Rising trend of drug resistance among extra pulmonary TB in Northern India
Surya Kant (Lucknow (Uttar Pradesh), India), Anand Kumar Maurya, Vijaya Lakshmi Nag, Jyoti Bajpai

The first experience of therapeutic dendritic cells vaccine administration in patients with extensively drug resistant lung tuberculosis
Anna Starshinova (St. Petersburg, Russian Federation), Michail Filatov, Michail Nazarenko, Vladimir Burdakov, Sergey Landa, Evgenia Istomina, Galina Marfina, Piotr Yablonskiy

Extensively drug-resistant tuberculosis in the penitentiary facilities of the Russian Federation
Larisa Rusakova (Moscow, Russian Federation), Sergey Sterlikov, Sergey Ponomarev

Knowledge and attitudes of chest physicians regarding screening of household contacts of MDR TB patients & infection control.
Jai Mullerpattan (Mumbai (Maharashtra), India), Zarir Udwadia, Shashank Ganatra, Husain Poonawala, Girija Kishore

Metabolism of connective tissue in multidrug-resistant pulmonary tuberculosis
Iryna Ovcharenko (Kharkiv, Ukraine), Olga Shevchenko, Olga Pogorelova, Sergey Ovcharenko

Current approaches to formulate evidence-based recommendations: a case study of WHO drug-resistant tuberculosis treatment guidance
Dennis Falzon (Genève, Switzerland), Nathan Ford, Ernesto Jaramillo, Payam Nahid, Pete Cegielski, Holger Schunemann, Jan Brozek, Karin Weyer

Isoniazid resistance is associated with delayed culture conversion during anti-tuberculosis treatment among patients with pulmonary tuberculosis
Chaeuk Chung (Daejeon, Republic of Korea), Ju Ock Kim, Sung-Soo Jung, Jinsook Lim, Ki Man Lee, Kyeong Seob Shin, Jong Hyock Park, Jinsoo Min

7.2D Session 390 08:30 - 10:30
Poster discussion: Asthma analysis

Disease(s) : Airway diseases, Respiratory critical care, Respiratory infections, Respiratory infections

Method(s) : Imaging, Cell and molecular biology, Public health, Endoscopy and interventional pulmonology, Physiology, Epidemiology, General respiratory patient care

Chairs : Kamal Maurice Hanna (Cairo, Egypt), Christophe Leroyer (Brest, France)
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>PA3688</td>
<td>Occupational asthma : still an underdiagnosed disease</td>
<td>Imene MAGROUN BEN SALAH (Ariana, Tunisia), Saloua Ismail, Emna Baraketi, Ines Aissa, Abir Ayadi, Hager Ghanouchi, Sonia Fehri, Samya Jamoussi, Habib Nouaigui</td>
</tr>
<tr>
<td>PA3689</td>
<td>The effect of Corticophobia on Inhaled Corticosteroid Treatment Compliance In Adults with Asthma</td>
<td>Halil Ibrahim Yakar (Istanbul, Turkey), Erkan Ceylan, Asiyte Kanbay</td>
</tr>
<tr>
<td>PA3690</td>
<td>Evolution of asthma in relation to the bronchial inflammatory phenotype: a follow-up study</td>
<td>Mikael Sarasate Azkona (Barcelona, Spain), Cayetano Diaz Chantar, Christian Romero, Marian Ramon, Iñigo Ojanguren, Xavier Muñoz, M Jesus Cruz</td>
</tr>
<tr>
<td>PA3691</td>
<td>Obesity-associated asthma – what about weight loss surgery?</td>
<td>Lilia Maia Santos (Coimbra, Portugal), Bárbara Ramos, Cláudia Chaves Loureiro</td>
</tr>
<tr>
<td>PA3692</td>
<td>Characterising the Adult Obese-Difficult Asthma Phenotype within the WATCH cohort</td>
<td>Anna Freeman (Southampton, United Kingdom), Adnan Azin, Matt A E Harvey, Heena M Mistry, Hans Michael Haitchi, Colin Newell, Tom M Wilkinson, Judit Varkony-Sepp, Frances Mitchell, Ramesh J Kurukulaaratchy</td>
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<tr>
<td>PA3693</td>
<td>Assessment of nutritional status in Tunisian asthmatic patients</td>
<td>hager kchouk (tunis, Tunisia), Haifa Zaibi, Dorra Karray, Jihen Ben Ammar, Mohamed Ali Baccar, Saloua Azzabi , Besma Diahari, Hichem Aouina</td>
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<td>PA3694</td>
<td>The usefulness of the impulse oscilometry for predicting the treatment outcomes of bronchial thermoplasty in patients with severe asthma.</td>
<td>Akiko Sano (Osaka, Japan), Hiroyuki Sano, Hirokazu Kimura, Hironi Makita, Munehiro Matsumoto, Nozomu Takei, Hiroki Kimura, Kaoruko Shimizu, Masaru Suzuki, Yoichi Ito, Masaharu Nishimura</td>
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<tr>
<td>PA3695</td>
<td>Cluster analysis of cough variant asthma using exhaled value of forced oscillation technique.</td>
<td>Fumika Koike (Kanagawa, Japan), Yoshio Otani, Saki Oyama, Wakaba Furui, Junji Endo, Yoichi Nakamura, Takao Miyoshi, Miho Akaza, Tetsuo Sasaki, Yasunari Miyazaki, Naohiko Inase, Yuki Sumi</td>
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<tr>
<td>PA3696</td>
<td>The volume fraction of extracellular matrix within the airway smooth muscle layer is related to fixed airflow obstruction in asthma</td>
<td>John Elliot (Perth (WA), Australia), Alvenia Cairncross, Peter Noble, Alan James</td>
</tr>
<tr>
<td>PA3697</td>
<td>Distinct impact of abdominal visceral adiposity on adult asthma symptoms</td>
<td>Houman Goudarzi (Sapporo, Japan), Satoshi Konno, Hirokazu Kimura, Hironi Makita, Munehiro Matsumoto, Nozomu Takei, Hiroki Kimura, Kaoruko Shimizu, Masaru Suzuki, Yoichi Ito, Masaharu Nishimura</td>
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<td>PA3698</td>
<td>Time course relationships of Type 1 and 2 inflammatory and innate immune pathways during Human Rhinovirus (HRV) infection in subjects with asthma</td>
<td>Alex Mann (London, United Kingdom), Alex Mann, Michael A Ghebre, Alan Bell, Chris Poll, John Efstimiou</td>
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<td>PA3699</td>
<td>Identification of pulmonary treatable traits in a real-life setting</td>
<td>Jodie Simpson (New Lambton, Australia), Rahul Shrimanker, Samantha Thulborn, Jennifer Cane, Richard Russell, Clare Connolly, Catherine Borg, Ian Pavord, Mona Bafadhel</td>
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<td>PA3700</td>
<td>Particularities of Respiratory functional exploration in obese asthmatic patients</td>
<td>ines laouini (nabeul, Tunisia), Haifa Zaibi, Jihen Ben Ammar, Sarra Mazaoui, Dorra Karray, Med Ali Baccar, Salwa Azzebi, Besma Diahari, Hichem Aouina</td>
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<td>PA3701</td>
<td>Bronchial provocation test and military aptitude</td>
<td>Amani Ben Mansour (Tunis, Tunisia), Salsabil Daboussi, Samira Mhamdi, Zied Moetemri, Chiraz Aichaouia, Islam Mejri, Mohsen Kadhraoui, Rzeig Cheikh</td>
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<td>PA3702</td>
<td>Longitudinal association between adiposity and wheezing and atopy at 22 years: The 1993 Pelotas Birth Cohort, Brazil.</td>
<td>Paula Duarte de Oliveira (Pelotas (RS), Brazil), Ana Maria Baptista Menezes, Cauane Blumenberg, Efrain Sanchez-Angarita, Ignacio Zabert, Glicerio Izabela Niño-Cruz, Janaina Calu Costa, Luiza Isnardi Cardoso Ricardo, Rafaela Costa Martins, Fernando César Wehrmeister</td>
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<tr>
<td>PA3703</td>
<td>The Correlation between Asthma Control and Total Rescue Asthma Medication Purchases.</td>
<td>Dekel Shlomi (Petach Tikva, Israel), Bernice Oberman, Irit Katz</td>
</tr>
<tr>
<td>PA3704</td>
<td>Evolution of severe asthma during pregnancy</td>
<td>Samia Rached (São Paulo (SP), Brazil), Renato Lima, Blenda Endlich, Gilmar Osmundo Junior, Rossana Francisco, Rodrigo Athanazio, Frederico Fernandes, Alberto Cukier, Rafael Stelmach, Regina Pinto</td>
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Poster discussion: Novel insights in the basic and translational research on idiopathic interstitial pneumonias

**Disease(s):** Interstitial lung diseases

**Method(s):** General respiratory patient care  Physiology  Cell and molecular biology

**Chairs:** Bruno Crestani (Paris, France), Antje Prasse (Hannover, Germany)

**PA3705**
LSC - 2018 - AKT1/AKT2 mRNA Balance Is Significantly Different In IPF BAL Cells Compared To Other Fibrotic ILDs.
Eliza Tsitoura (Heraklion (Crete), Greece), Eleni Bibaki (bibakieleni@gmail.com / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion), Eirini Vasarmidi (eirvasar@gmail.com / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion), Chara Koutoulaki (xa-ra18@gmail.com / Laboratory of Molecular and Cellular Pulmonology, Medical School, University of Crete,Heraklion), George A. Margaritopoulos (gmargaritop@yahoo.gr / Interstitial Lung Disease Unit, Royal Brompton Hospital, Imperial College,London), Konstantinos Karagiannis (k.karagiannis@med.uoc.gr / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion), Athanasia Proklou (proklath@gmail.com / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion), Athina Trachalaki (atrachalaki@gmail.com / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion), Despoina Moraitaki (mroitaki@med.uoc.gr / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion), Athol U. Wells (rbhild@rbht.nhs.uk / Interstitial Lung Disease Unit, Royal Brompton Hospital, Imperial College,London), Katerina M. Antoniou (kantoniou@med.uoc.gr / Department of Thoracic Medicine, Interstitial Lung Disease Unit, University Hospital,Heraklion)

**PA3706**
LSC - 2018 - Azithromycin reduces aSMA and leads to vacuolar formation in lung fibroblasts
Ronja Schliep (Hannover, Germany), Kristina Krempaska (kristina.krempaska@dbrm.unibe.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Sandra Barnowski (sandra.barnowski@dbrm.unibe.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Andrea Stokes (Andrea.Stokes@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Thomas Geiser (Thomas.Geiser@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern) , Lars Knudsen (knudsen.lars@mtoh-mannovde.de / Functional and Applied Anatomy Medical School Hannover,Hannover), Manuela Funke-Chambour (Manuela.Funke-Chambour@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern , CH,Bern)

**PA3707**
Mesenchymal stem cells reduce ER stress via PERK-Nrf2 pathway in aged mouse model
EUN JOO LEE (Seoul, Republic of Korea), Nayra CáRdenes, Diana áLvarez , Jacobo  SellaréS, John   Sembrat, Paola Aranda, Yating  Peng , Jordan  Bullock, Seyed Mehdi Nouraie, Ana L Mora, Mauricio Rojas

**PA3708**
Role of serum AGE/RAGEs in the differential diagnosis of pulmonary fibrosis
Carlos Machahua (Hospitalet de Llobregat (Barcelona), Spain), Ana Montes-Worboys, Lurdes Planas-Cerezales, Raquel Buendia-Flores, Maria Molina-Molina, Vanesa Vicens-Zygmont

**PA3709**
17(R)-resolvind1 mediates a pathway involving the transcription factor c-Fos to reduce bleomycin-induced pulmonary fibrosis in mice.
masakiyo yatomi (maebashi, Japan), Takeshi Hisada, Yoshimasa Hachisu, Yusuke Tsukagoshi, Norimitsu Kasahara, Makiko Sato, Hiroaki Tsurumaki, Haruka Saito, Kenichiro Hara, Yasuhiko Koga, Noriaki Sunaga, Toshitaka Maeno, Kunio Dobashi

**PA3710**
Promotion of pulmonary fibroblast migration by bile acid receptor through activation of TGF-ß1/p-Smad3 signaling pathway
Handong Jiang (Shanghai, China), Xueqing Liu, Fang Fang Wang

**PA3711**
MUC5B is expressed by bronchoalveolar epithelia and is associated with ER stress in idiopathic pulmonary fibrosis and rheumatoid arthritis associated interstitial lung disease
Joyce Lee (Cherry Hills Village, United States of America), Evgenia Dobrinskikh, Alani Estrella, Alex Schulick, Ivana Yang, Paul  Wolters, David Schwartz

**PA3712**
Peripheral oxidative burst correlates with VEGF serum levels in IPF: modulation by anti-fibrotic treatments
Marafulisa Bocchino (Napoli (NA), Italy), Serena Zanotta, Gaetano Rea, Giorgio Emanuele Polistina, Antonietta Coppola, Domenico Galati

**PA3713**
Upregulation of Retinoic Acid-Related Orphan Receptor-alpha (RORA) in IPF; a promising therapeutic target
Eliza Tsitoura (Heraklion (Crete), Greece), Eleni Bibaki, Anastasios Koutsopoulos, Eleni Lagoudaki, Katerina Karagianni, Nikos Tzanakis, Bruno Crestani, Katerina Antoniou

**PA3714**
Identification of Cell Populations with Increase Expression of Markers of Cell Senescence in Explanted IPF Lungs
Mauricio Rojas (Pittsburgh, United States of America), Nina Morse, Tracy Tabib, John Sembrat, Kristina Buschur, Humberto Trejo, Tamara Cruz, Lan Tu, Kevin Gibson, Wei Chen, Takis Benos, Ana Mora, Robert Lafyatis
Effect of in vivo blockade of the KCa3.1 ion channel on type II alveolar epithelial cell turnover in pulmonary fibrosis
K. Udari Eshani Perera (Melbourne (VIC), Australia), Louise Organ, Habtamu Biyazen Derseh, Sasika Nimanthi Dewage, Andrew Stent, Ken Snibson

The potential use of immunomodulatory peptides from Brazilian scorpion Tityus obscurus as pharmacological therapy for Idiopathic Pulmonary Fibrosis
Karina Smidt Simon (Brasilia (DF), Brazil), Cesar Melo-Silva., Paulo Veloso-Junior, Verónica Amado, Florêncio Cavalcante-Neto, Anamélia Bocca

TIF1? has a protective role in pulmonary fibrosis
Pierre-Marie Boutanquoi (Dijon, France), Guillaume Beltramo, Olivier Burgy, Pierre-Simon Bellaye, Lucile Dondaine, Arnaud Mailleux, Bruno Crestani, Carmen Garrido, Françoise Goirand, Philippe Bonniaud

The efficacy of Phoenix dactylifera L. sap for the treatment of lung injury in a murine model of pulmonary fibrosis
Sana BAHRI (Tunis, Tunisia), Raed Abdennabi, Ridha Ben Ali, Mona Mlika, Neji Gharsallah, Khadija Ayed, Saloua Jameleddine

Let7c and AKT1/AKT2 mRNA balance is different in IPF BAL cells compared to other fibrotic ILDs.
Eliza Tsitoura (Heraklion (Crete), Greece), Eleni Bibaki, Eirini Vasarmidi, Anthina Trachalaki, Chara Koutoulaki, George A. Margaritopoulos, Konstantinos Karagiannis, Athanasia Prokliou, Despoina Moraitaki, Nikos Tzanakis, Athol U. Wells, Katerina M. Antoniou

The profibrotic role of downregulated Na,K-ATPase ß1 subunit in alveolar epithelium cells in lung fibrosis
Biyun Li (Beijing, China), Xiaoxi Huang, Xuefeng Xu, Wen Ning, China-Japan Friendship Hospital Dai

Metformin attenuates bleomycin-induced pulmonary fibrosis in mice via IGF-1 suppression
Huijuan Xiao (Beijing, China), Xiaoxi Huang, Shiroyao Wang, Jinglei Jing, Dingyuan Jiang, Huaping Dai

Plasma mitochondrial DNA as a biomarker of disease progression in idiopathic pulmonary fibrosis
Hee-young Yoon (Seoul, Republic of Korea), Hak-Su Kim, Kwang Min Lee, Kwanghun Choi, Dong Soon Kim, Jin Woo Song

No Room

Session 393 08:30 - 13:00
Game Zone: GAME ZONE - SESSION 5

Ultrasound
Rahul Bhatnagar (Bristol, United Kingdom), Michelle Andrea Espinoza Solano (Sevilla, Spain), Jayne Holme (Altrincham (Cheshire), United Kingdom) 3736

Interventional bronchoscopy
Sofia Romani (Roma (RM), Italy) 3737

Session 398 10:45 - 12:45

Session: Pulmonary endoscopy
Interstitial lung and obstructive diseases

Aims: Interstitial lung diseases and obstructive lung diseases constitute a significant part of the workload of pulmonologists. Cryobiopsy is increasingly being used to diagnose these diseases and will be discussed. Endoscopy is a therapeutic option for patients with obstructive lung disease. The techniques that will be demonstrated in this session are the insertion of valves or coils, thermoplasty and cryobiopsy.

Disease(s): Thoracic oncology

Tag(s): Clinical

Chairs: Samy Lachkar (Rouen Cedex, France), Daniela Gompelmann (Heidelberg, Germany)

10:45 First procedure: emphysema and valves
Ralf Eberhardt (Heidelberg, Germany) 3749

11:15 Second procedure: emphysema and coils
Dirk-Jan Slebos (Groningen, Netherlands) 3750

11:45 Third procedure: asthma and thermoplasty
Pascal Chanez (Marseille, France) 3751

12:15 Fourth procedure: cryobiopsy
Venerino Poletti (Forli, Italy) 3752
**Session 399  10:45 - 12:45**

**Year in review: Scientific Year in Review**

**Lung cancer development and response to treatment: the role of chronic lung inflammation and the microbiome**

**Aims:** To present and discuss the role of inflammation and microbial composition in the development of lung cancer and its response to treatment.

**Disease(s):** Airway diseases, Thoracic oncology

**Method(s):** Cell and molecular biology

**Tag(s):** Translational

**Target audience:** Clinical researcher, Pathologist, Scientist (basic, translational), Thoracic oncologist, Adult pulmonologist/Clinician

**Chairs:** Silke Meiners (München, Germany), Joachim G.J.V. Aerts (Rotterdam, Netherlands)

- **10:45** Determinants of lung cancer evolution: immune escape and inflammation  
  Sam Janes (London, United Kingdom)

- **11:15** The microbiome, cancer development and response to therapy  
  Leopoldo N. Segal (New York, NY, United States of America)

- **11:45** The link between inflammation and cancer  
  Georgios Stathopoulos (München, Germany)

- **12:15** The link between inflammation and lung cancer: lessons from chronic obstructive pulmonary disease  
  Esther Barreiro Portela (Barcelona, Spain)

**Session 400  10:45 - 12:45**

**Symposium: It's my favourite cell that affects your asthma**

**Asthma phenotyping and endotyping**

**Aims:** to provide an overview of how mast cells, eosinophils, neutrophils, innate lymphoid cells and airway epithelial cells contribute to the clinical manifestations of asthma. The possible mechanisms by which these cells affect smooth muscle function and bronchial hyper-responsiveness will be discussed along with the therapeutic implications of these novel insights.

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, General respiratory patient care

**Tag(s):** Translational

**Target audience:** Clinical researcher, General practitioner, Scientist (basic, translational)

**Chairs:** Guy Brusselle (Ghent, Belgium), Pieter S. Hiemstra (Leiden, Netherlands)

- **10:45** Role of mast cells in asthma and bronchoconstriction  
  Hans Jürgen Heinrich Hoffmann (Århus, Denmark)

- **11:15** Role of eosinophils in asthma and bronchoconstriction  
  Florence Schleich (Liège, Belgium)

- **11:45** Role of neutrophils in asthma and bronchoconstriction  
  Jodie Simpson (New Lambton, Australia)

- **12:15** Role of innate lymphoid cells and the epithelium in asthma and bronchoconstriction  
  Cezmi A. Akdis (Davos, Switzerland)

**Session 401  10:45 - 12:45**

**Hot topics: Recent advances in respiratory disorders with oropharyngeal dysphagia**

**Aims:** Swallowing disorders are common in respiratory diseases and vice versa, but these combined conditions have been largely ignored to date. To address this, the ERS and the ESSD started a collaboration during the ERS Annual Meeting in London in September 2016. This collaboration aims to promote the development of programs for all patients who have both swallowing and respiratory disorders.

**Disease(s):** Sleep and breathing disorders

**Method(s):** Physiology

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, Physiologist, Physiotherapist, Radiologist, Trainee, Adult pulmonologist/Clinician

**Chairs:** Thomas Similowski (Paris Cedex 13, France), Paolo Palange (Rome, Italy)
10:45 When swallowing disorders meet respiratory diseases: a clinical point of view  
Eric Verin (ROUEN, France)  

11:15 Dysphagia and sleep disorders: from physiology to clinical applications  
Anita Simonds (London, United Kingdom)  

11:45 Functional assessment of respiration in patients with progressive neurological diseases  
Andrea Aliverti (Milan, Italy)  

12:15 Swallowing dysfunction and aspiration pneumonia: a clinical perspective  
Pierre Clavé (Barcelona, Spain)  

7.3C  
Session 402 10:45 - 12:45  

Symposium: Fungal infection in the intensive care unit  
Aims: to deepen understanding about how to diagnose and treat bloodstream fungal infections.  
Disease(s): Respiratory critical care  Respiratory infections  
Method(s): General respiratory patient care  Respiratory intensive care  
Tag(s): Clinical  
Target audience: Critical/Intensive care physician, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician  
Chairs: Marcus Schultz (Amsterdam, Netherlands), Leo M.A. Heunks (Amsterdam, Netherlands)  

10:45 Early diagnosis  
David W. Denning (Manchester (Greater Manchester), United Kingdom)  

11:15 Fungal infections in immunocompromised patients  
Elie Azoulay (Paris, France)  

11:45 Choosing the right antifungal agent  
Marc Leone (Marseille, France)  

12:15 The evidence regarding early antifungal treatment  
Andrea Cortegiani (Palermo, Italy)  

7.3Z1  
Session 403 10:45 - 12:45  

Symposium: Recent advances in primary ciliary dyskinesia  
Aims: to present the general characteristics of primary ciliary dyskinesia (PCD), the recent findings regarding diagnostic tools and the international studies; and to promote further collaboration.  
Disease(s): Paediatric respiratory diseases  Respiratory infections  
Method(s): Epidemiology  General respiratory patient care  Imaging  Pulmonary function testing  
Tag(s): Clinical  
Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiotherapist, Policy maker, Student, Trainee, Adult pulmonologist/Clinician  
Chairs: Bülent Taner Karadag (Istanbul, Turkey), Jane Lucas (Southampton (Hampshire), United Kingdom)  

10:45 Genetics of PCD  
Heymut Omran (Münster, Germany)  

11:15 Diagnosis of PCD  
Eric G. Haarman (Amsterdam, Netherlands)  

11:45 Clinical characteristics of PCD  
Claudia E. Kuehni (Bern, Switzerland)  

12:15 Management of PCD in young people and adults  
Pierre-Régis Burgel (Sorbonne Paris Cité, France)  

7.3B  
Session 404 10:45 - 12:45  

Oral presentation: Quality, reference values and standards  
Disease(s): Airway diseases  Interstitial lung diseases  
Method(s): General respiratory patient care  Physiology
Late Breaking Abstract - Do the 2012 GLI multi-ethnic reference equations show a good fit for healthy black South Africans?
Sara-Jane Smith (London, United Kingdom), Diane Gray, Graham Hall, Sanja Stanojevic, Reratiwle Mphahlele, Lindsay Zumba, Refiloe Masekela

OA3774 Development and pilot evaluation of a quality grading system for paediatric spirometry
Lucy Perrem (Toronto (ON), Canada), Felix Ratjen, Sharon Dell, David Wilson

OA3775 Impact of shorter time interval between duplicate DLCO measurements
Azar Kianzad (Amsterdam, Netherlands), Jan Fijn, Pieter Zanen, Ivo Van Der Lee

OA3776 Hypoxic challenge testing in the UK and Australia & New Zealand
Harry Griffin (Whitchurch, United Kingdom), Ashvin Isaac, William Noffsinger, Bhajan Singh, Helen Purcell

OA3777 Spirometry reference values for Australian Aboriginal and Torres Strait Islander (Indigenous) children and young adults
Tamara Blake (South Brisbane, Australia), Mark Chatfield, Anne Chang, Helen Petsky, Margaret Mcelrea

OA3778 Evaluation of the ERS’93 reference equations of Total Lung Capacity
Kevin De Soomer (Burcht, Belgium), Birgitte Hansen, Hilde Vaerenberg, Hilde Cuijpers, Karla Leemans, Ellie Oostveen

OA3779 The impact of a new reference value set for diffusing capacity for patients with idiopathic pulmonary fibrosis.
Monique Wapenaar - De Korver (Vlaardingen, Netherlands), J.R. Miedema, C.J. Lammering, M.S. Wijsenbeek

OA3780 The impact of changing to the GLI reference equations on transfer factor results in children referred from a Haematology/Oncology service.
Paul Burns (Glasgow (Glasgow), United Kingdom), James Paton

OA3781 Genetic landscape of pulmonary langerhans cell histiocytosis
Fanélie Jouenne (Paris, France), Gwenael Lorillon, Carine Laurent-Issartel, Aurélie Sadoux, Véronique Meignin, Cristina Leschi, Emmanuelle Bugnet, Samia Mourah, Abdellatif Tazi

OA3782 Chemotherapy in patients with pulmonary Langerhans cell histiocytosis
Elżbieta Radzikowska (Warszawa, Poland), Elżbieta Wiatr, Katarzyna Błasinska-Przerwa, Kazimierz Roszkowski-Sliz

OA3783 Fatal cases of pulmonary alveolar proteinosis: a nationwide surveillance in Japan

OA3784 Characterization of the gene network driving the whole lung lavage (WLL) outcome in Pulmonary Alveolar Proteinosis (PAP).
Ilaria Campo (Pavia (PV), Italy), Michele Zorzetto, Francesco Bonella, Francesca Mariani, Elena Paracchini, Zamir Kadija, Mario Grassi, Federica Meloni

OA3785 Vascular endothelial growth factors and matrix metalloproteinases serum levels for LAM diagnosis in patients with sporadic LAM and tuberous sclerosis
Silvia Terraneo (Arosio (CO), Italy), Fabiano Di Marco, Gianluca Imeri, Lisa Giuliani, Silvia Ancona, Paola Cetrangolo, Enzo Grasso, Stefano Centanni, Elena Lesma

OA3786 A national registry for childhood interstitial and diffuse lung diseases in the United States.
Lisa Young (Nashville, United States of America), Rebekah Nevel, Alicia Casey, Martha Fishman, Sebastian Welsh, Deborah Liptzin, James Haggard, Geoffrey Kurland, Daniel Craven, Elizabeth Fiorino, Jane Taylor, Samuel Goldfarb, Carol Conrad, Christin Kuo, Gail Deutsch, Aliva De, Michael Powers, Robin Deterding

OA3787 Pulmonary interstitial Glycogenosis – a systematic analysis of new cases
Elias Seidl (München, Germany), Julia Carlens, Simone Reu, Martin Wetzke, Julia Ley-Zaporozhan, Frank Brasch, Waldtraut Wesselah, Andrea Schrams, Daniela Rauch, Luise Schuch, Matthias Kappler, Petra Schelstraete, Monika Wolf, Firma Stehling, Eric Haarmann, Dorine Bornsztajn, Monick Van De Loo, Sune Rubak, Bernd Hinrichs, Nicolaus Schwerk, Matthias Griese
**Session 406** 10:45 - 12:45

**Symposium: New challenges in tackling known diseases with the 10 ERS Principles for Lung Health**

**Aims:** Respiratory diseases are among the leading causes of death and disease in the world. The five respiratory diseases that have the biggest impact are COPD, asthma, lower respiratory tract infections, tuberculosis and lung cancer. The ERS recently published its “10 Principles for Lung Health”. These Principles indicate the diverse actions that the respiratory healthcare community can take to improve lung health, thereby helping the United Nations to achieve its ambitious targets, namely, the reduction of noncommunicable diseases, the induction of sustainable development and the elimination of tuberculosis. However, these actions cannot be viewed in isolation from broader societal challenges and public health topics such as migration and climate change. The aim of this session is to present the key elements of the 10 Principles for Lung Health and to describe the new and emerging challenges, namely, migration and climate change, that may limit the achievements of these Principles.

**Disease(s):** Airway diseases, Respiratory infections  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Allergist, Critical/Intensive care physician, Lung function technologist, Paediatrician, Pathologist, Patient, Physiologist, Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee  
**Chairs:** Guy F Joos (Ghent, Belgium), Ildikó Horváth (Budakeszi, Hungary)

**10:45 Lower respiratory infection and antimicrobial resistance**  
Tobias Welle (Hannover, Germany)  

**11:15 COPD and asthma: the main noncommunicable diseases that should be tackled?**  
Antonio Spanevello (Milan, Italy)  

**11:45 Respiratory health in migrant and refugee populations**  
Juan Celedon (Pittsburgh, United States of America)  

**12:15 Environment, health and climate change: what respiratory professionals need to know**  
Isabella Annesi Maesano (Paris, France)

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**Session 407** 10:45 - 12:45

**Oral presentation: Imaging biomarkers and quantitative imaging**

**Disease(s):** Airway diseases, Pulmonary vascular diseases  
**Method(s):** Physiology, Imaging  
**Chairs:** Aleksandar Grgic (Homburg, Germany), Johan Coolen (Leuven, Belgium)

**OA3792** Late Breaking Abstract - Value of planar V/Q scan and V/Q SPECT in diagnosing chronic thromboembolic pulmonary hypertension: head to head comparison with pulmonary angiography  
Lei Wang (Shanghai, China), Meng Wang, Rongzheng Ma, Dayong Wu, Wei Fang

**OA3793** Airway tapering in bronchiectatic and healthy airways  
Kin Quan (London, United Kingdom), Joseph Jacob, Rebecca J. Shipley, David J. Hawkes, John R. Hurst

**OA3794** Association of airways visibility on computed tomography with symptoms and lung function in COPD  
Naoya Tanabe (Kyoto, Japan), Susumu Sato, Shigeo Muro, Tsuyoshi Oguma, Atsuyasu Sato, Toyohiro Hirai

**OA3795** Using DPM CT analysis to assess the contribution of small airways disease in COPD  
Kristoffer Ostridge (Southampton (Hampshire), United Kingdom), Kerry Gove, Miranda Kirby, Sam Peterson, Steven Mceleney, Chris Mccrae, Ori Vaarala, Karl Staples, Tom Wilkinson

**OA3796** Quantitative computed tomography imaging in asthma and chronic obstructive pulmonary disease.  
Andrzej Obojski (Wrocław, Poland), Mateusz Patyk, Martyna Parkitna-Patyk, Dąbrówka Sokołowska-Dąbek, Urszula Zaleska-Dorobisz

**OA3797** PRM metrics predict COPD progression  
Paula Belloni (Half Moon Bay, United States of America), Dorothy Cheung, Xiaoying Yang, Alex De Crespigny, Alexandre Coimbra

**OA3798** Regional detection of edema following segmental LPS challenge using functional MR imaging  
Jens Vogel-Clausen (Hannover, Germany), Julius Renne, Heike Biller, Marcel Gutberlet, Christoph Czerner, Marilisa Schiwek, Kathrin Hohl, Frank Risse, Maria Sarno, Abhya Gupta, Jens Hohlfeld

**OA3799** Assessing regional lung ventilation with 19F-MRI of inhaled perfluoropropane  
Benjamin Pippard (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Adam Maudner, Ian Forrest, Ian Sabroe, Rod Lawson, A John Simpson, Jim Wild, Pete Thelwall
Session 408
10:45 - 12:45

Oral presentation: Pulmonary embolism: long-term sequelae and advances in therapies

Disease(s): Pulmonary vascular diseases

Method(s): Epidemiology  Imaging  Respiratory intensive care  General respiratory patient care

Chairs: Carlos Andres Quezada Loaiza (Las Rozas (Madrid), Spain), Francis Couturaud (Brest, France)

OA3800
Variants of genes related to cardiovascular disease in patients with pulmonary thromboembolism
Ayse Gul Zamani (Konya, Turkey), Adil Zamani, Celalettin Korkmaz, Şebnem Yosunkaya, Mahmut Selman Yıldırım

OA3801
Percutaneous catheter-directed thrombectomy in patients with severe pulmonary embolism
Costantino Del Giudice (Paris, France), Nadia Aissaoui, Arthur Neuschwander, Anne Roche, Benjamin Planquette, Paul Achoh, Guy Meyer, Marc Sapoval, Olivier Sanchez

OA3802
Tomographic features associated with excessive ventilatory responses during exercise in chronic pulmonary thromboembolic hypertension
Andrei Augusto Assis de Campos Cordeiro (São Paulo (SP), Brazil), Pulcheri Roberta, Camila Loureiro, Eloara Ferreira, Angelo Cepeda, Carolina Messina, Rudolf Oliveira, Verrastro Carlos, Luiz Eduardo Nery, Jaqueline Ota-Araújo

OA3803
Pulmonary manifestations of antiphospholipid syndrome: A retrospective analysis of 67 patients
Sevinc Sarinc Ulasli (Ankara, Turkey), Sevinc Sarinc Ulasli, Deniz Köksal, Oğuz Karcıoğlu, Berkın Armagan, Alper Sari, Elif Babaoglu, Ali Akdoğan, Sule Apras Bilgen

OA3804
Frequency of chronic thromboembolic pulmonary hypertension screening after pulmonary embolism in cancer patients.
Laurent Bertolletti (Saint Etienne Cedex, France), Judith Catella-Chatron, Adel Merah, Elodie De Magalhaes, Nathalie Moulin, Sandrine Accassat, Cécile Duvillard, Patrick Mismetti

OA3805
Persistent exercise limitation after successful pulmonary endarterectomy: frequency and determinants
Angelo Guido Corsico (Pavia (PV), Italy), Rita Di Domenica, Andrea Maria D’Armini, Valentina Conio, Amelia Grosso, Erica Gini, Federica Albicini, Maurizio Pin, Antonio Sciortino, Stefano Ghio, Catherine Klersy, Isa Cerveri

OA3806
Pulmonary vascular disease(PC) and risk of mortality in patients with idiopathic pulmonary fibrosis(IPF)

Session 409
10:45 - 12:45

Oral presentation: Novel findings in biomarkers of tobacco use, exposure, hazards and genetics

Disease(s): Respiratory infections  Airway diseases  Respiratory infections

Method(s): General respiratory patient care  Cell and molecular biology  Epidemiology  Public health

Chairs: Elif Dagli (İstanbul, Turkey), Charlotta Pisinger (Glostrup, Denmark)

OA3807
Late Breaking Abstract - Update the evidence about thirdhand smoke: a systematic review.
Ana Díez (barcelona, Spain), Ana Díez, Pia Cassanello, Cristina Lidón, Núria Matilla, Albert Balaguer, Jose M Martinez

OA3808
Tobacco consumption, systemic inflammation, and airflow limitation: a Mendelian randomization analysis of 98085 individuals
Shoaib Afzal (Herlev, Denmark), Yunus Çolak, Peter Lange, Børge G. Nordestgaard

OA3809
Smoking causes early biological aging: a deep neural network analysis of common blood test results
Neil Skjodt (Lethbridge (AB), Canada), Polina Mamoshina, Kirilli Kochetov, Franco Cortese, Anna Kovalchuk, Alex Alper, E Putin, Morten Scheiby-Knudsen, Charles R Cantor, Alex Zhavoronkov, Olga Kovalchuk

OA3810
PLASMA/SALIVA AND GENOTYPIC/PHENOTYPIC DIFFERENCES OF NICOTINE METABOLITE RATIO.
Gianfranco Puppo (Pisa (PI), Italy), Francesco Pistelli, Stefano Fogli, Marzia Del Re, Marco Lazzeretti, Ferruccio Aquilini, Romano Danesi, Laura Carrozzi, Antonio Palla

OA3811
Assessment of the effect of exposure to environmental tobacco smoke on hair heavy metal levels in children
Fatma Nazan Çobanoğlu (Ankara, Turkey), Fatih Gunay, Nisa Eda Cullas Ilaşlan, Filiz Bakar, Kiymet Deniz, Yusuf Kagan Kadioglu, Sibel Kiran, Nazan Cobanoglu

OA3812
Cigarette smoking acutely decreases the serum levels of the COPD biomarker sRAGE
Simon D. Pouwels (Groningen, Netherlands), Frank Klont, Marcel D. Kwiatkowski, Valerie R. Wiersma, Péter Horvathovich, Rainer Bischoff, Nick H.T. Ten Hacken
The associations between an IL-2 gene polymorphism and smoking in patients with recurrent pulmonary tuberculosis (RTB)
Dmytro Butov (Kharkiv, Ukraine), Mihailo Kuzhko, Tatiana Butova

Identification of smoking status from routine blood test results using deep neural network analysis.
Neil Skjodt (Lethbridge (AB), Canada), Polina Mamoshina, Kirill Kochetov, Franco Cortese, Anna Kovalchuk, Alex Aliper, E Putin, Morten Scheibye-Knudsen, Charles R. Cantor, Alex Zhavoronkov, Olga Kovalchuk

Oral presentation: CTD-ILD and hypersensitivity pneumonitis: risk stratification and management
Method(s): General respiratory patient care
Chairs: Elisabetta Renzoni (London, United Kingdom), Julie Morisset (Montréal (QC), Canada)

Late Breaking Abstract - Clinical utility of basophil activating test (BAT) in subjects with drug-induced lung disease.
Shintaro Suzuki (Tokyo, Japan), Tetsuya Homma, Shin Ohta, Kyoko Fujiwara, Yoshito Miyata, Yasonari Kishino, Akihiko Tanaka, Tsukasa Ohnishi, Hironori Sagara

A prognostic staging system for rheumatoid arthritis-associated interstitial lung disease
Jin Woo Song (Seoul, Republic of Korea), Hocheol Kim, Minkyu Han, Jacob Joseph, Gary Cross, Joseph Barnett, Dong Soon Kim

Prognostic impact of bronchoalveolar lavage lymphocytosis in patients with chronic Hypersensitivity Pneumonitis
Julia Wälischer (Heidelberg, Germany), Benjamin Gross, Jacques Bruhwylner, Julie Morisset, Claus Peter Heussel, Felix Lasitschka, Felix Herth, Michael Kreuter

Lung involvement and clinical characteristics in anti-MDA5 positive connective tissue diseases
Federica Meloni (Pavia (PV), Italy), Jose M Cifrian, Alberto Pesci, Ricardo Colhio, Mayra Mejia, Francesco Bonella, Julie Perrin, Paolo Cerutti, Raquel Garcia-Sevilla, Elena Bargagli, Sandrine Hirschli, Veronica Codullo, Lorenzo Cavagna

Genetic variant in MMP2 increases the risk to develop autoantibodies in patients with Hypersensitivity Pneumonitis
Ivette Buendia Roldán (México D.F, Mexico), Luis Santiago Ruiz, Gloria Perez Rubio, Mayra Mejia, Martha Montañño, Ramces Falfan Valencia

Cystic lesion in myeloperoxidase anti-neutrophil cytoplasmic antibody (MPO-ANCA)- positive interstitial pneumonia: radiological and pathological analysis
Erina Tabata (Kanagawa, Japan), Tamiko Takemura, Tomohisa Baba, Eri Hagiwara, Hiroaki Nakagawa, Takuma Katano, Goshi Matama, Naoto Aiko, Kohsuke Isomoto, Ryota Ohtoshi, Ryota Shintani, Shinko Saoyama, Satoshi Ikeda, Hideaki Yamakawa, Takashi Niwa, Tsuneyuki Oda, Ryo Okuda, Akimasa Sekine, Hideya Kitamura, Shigeru Komatsu, Taie Iwasawa, Takashi Ogura

The effect of Rituximab treatment on progression of Rheumatoid arthritis-associated interstitial lung disease
Sukhmani Sra (London, United Kingdom), Katherine Myall, Boris Lams, Sangita Agarwal, Alex West

Safety of benzodiazepines and opioids in interstitial lung disease: national prospective study
Sandra Bajwah (London, United Kingdom), Joanna Davies, Hanan Tanash, David Currow, Magnus Ekstrom

Poster discussion: Telehealth, home rehabilitation and specific adaptations to exercise interventions in different settings
Method(s): Transplantation Physiology Respiratory intensive care General respiratory patient care
Chairs: Christian Osadnik (Melbourne, Australia), Maria Koulouposlou (London, United Kingdom)

Late Breaking Abstract - Fatigue is highly prevalent in patients with COPD and correlates poorly with the airflow limitation
Yvonne Goërtz (Horn, Netherlands), Martijn Spruit, Alex Van T Hul, Jeannette Peters, Maarten Van Herck, Nienke Nakken, Remco Djamin, Chris Burtin, Melissa Thong, Arnold Coors, Yvonne Meertens-Kerris, Emiel Wouters, Judith Prins, Frits Franssen, Jean Muris, Lowie Vanfleteren, Mirjam Sprangers, Daisy Janssen, Jan Janssen

Patient experiences of home-based rehabilitation during treatment for inoperable lung cancer.
Lara Edbrooke (Melbourne (VIC), Australia), Linda Denehy, Catherine Granger, Suzanne Kapp, Sanchia Aranda
| PA3825 | Can exercise capacity be improved after home exercise in COPD patients? | Silvia Regina Valderramas (Curitiba (PR), Brazil), Demetria Kovelis, Camila Mazzarin, Samia Kalil Biazim, Anna Raquel Silveira Gomes |
| PA3826 | Barriers and enablers of COPD telehabilitation: a qualitative study taking a frontline staff perspective | Christina Damhus (Copenhagen V, Denmark), Christina Emme, Henrik Hansen |
| PA3827 | How does a physiotherapy-led remote monitoring service for home mechanical ventilation impact upon patient experience? | Denise Gibson (Southampton (Hampshire), United Kingdom) |
| PA3828 | Longitudinal, home-based study of lung function, saturation and disease-related symptoms in COPD | Karin Wadell (Umeå, Sweden), Urban Wiklund, Fredrik Öhberg, Eva Bergmann, Asa Holmer, Anders Blomberg |
| PA3829 | Impact of single-limb (SL) versus two-limb (TL) low load/high-repetition resistance training (LLHR-RT) on clinical outcomes in people with COPD – a randomized controlled trial. | Andre Nyberg (Umeå, Sweden), Didier Saey, Mickaël Martin, François Maltais |
| PA3830 | Impact of partitioning exercises on quadriceps muscle endurance and muscle fiber-type distribution following low-load/high-repetition resistance training (LLHR-RT) in people with advanced COPD. | Didier Saey (Québec (QC), Canada), Andre Nyberg, Didier Saey, François Maltais |
| PA3831 | Interval versus continuous cycling in advanced interstitial lung disease | Lisa Wickerson (Toronto (ON), Canada), Dina Brooks, John Granton, Lianne Singer, Dmitry Rozenberg, Darlene Reid, Sunita Mathur |
| PA3832 | Comparison of continuous flow versus demand oxygen delivery systems in COPD patients: a systematic review and meta-analysis | Rainer Gloeckl (Schoenau am Koenigssee, Germany), Christian Osadnik, Lisa Bies, Daniela Leitl, Rembert Koczulla, Klaus Krenn |
| PA3834 | Design of pulmonary rehabilitation during acute exacerbations of COPD | Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Filipa Marques Rego Machado, Pedro Matos Silva |
| PA3835 | Community-based pulmonary rehabilitation during acute exacerbations of COPD | Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Machado, Ana Oliveira, Carla Valente, Chris Burtin |
| PA3836 | Efficacy of a comprehensive education program including inhaler training and COPD management during hospitalization of AECOPD, a randomized controlled trial. | Irene Torres Sanchez (Santa Fe, Spain), Maria Granados-Santiago, Laura López-López, María Del Mar Lucena-Aguilera, Ramón Romero-Fernández, Marie Carmen Valenza |
| PA3837 | Enhancing the understanding of the time course of AECOPD. | Ana Luisa Araújo Oliveira (Vila Nova de Famalicão, Portugal), Vera Afreixo, Carla Valente, Liliana Andrade, Alda Marques, New Haven, CT, USA, New Haven, Nikolaoos Xylourgidis (nikosxylourgidis@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Guoying Yu (guoyingyu@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Jose D. Herazo-Mayar (joseherazoymaya@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Leonard Bizenhofer (leonardbizenhofer@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Antón Bennett (bennett@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven), Nafiz Kaminiski (nafizikaminiski@gmail.com / Department of Internal Medicine, Section of Pulmonary, Critical Care and Sleep Medicine, Yale School of Medicine, New Haven, CT, USA, New Haven) |
| PA3838 | Acute exacerbation in COPD and relationship between cardiovascular risk and functional profile | Alessandro Heubel (Bauru, Brazil), Erika Kabbach, Jéssica Barbosa, Aline Agnolet, Nathalia Dias, Audrey Borghi-Silva, Meliza Roscani, Renata Mendes |
| PA3839 | Comparing the effects of pulmonary rehabilitation in patients with uncontrolled and partially controlled asthma | Ilknur Naz (Izmir, Turkey), Hulya Sahin |
| PA3840 | The effect of pulmonary rehabilitation on health-related quality of life in patients with pulmonary sarcoidosis | Katerina Neumannova (OLOMOC, Czech Republic), Monika Zurchova, Jakub Zatiloukal, Vladimir Lostakova, Lia Hubackova, Vitezslav Kolek |
**Terminal 7  
Session 412  
10:45 - 12:45**

**Oral presentation: General thoracic surgery**

**Disease(s):** Airway diseases, Thoracic oncology, Interstitial lung diseases

**Method(s):** Cell and molecular biology, General respiratory patient care, Endoscopy and interventional pulmonology, Surgery

**Chairs:** Cagatay Tezel (Istanbul, Turkey), Laureano Molins Lopez-Rodo (Barcelona, Spain)

OA3841

**Late Breaking Abstract - Pre-operative Non Invasive Ventilation (NIV) does not decrease post-operative complication rate after carcinologic lung surgery: the preOVNI GFPC 12-01 randomized controlled study.**

Nicolas Paleiron (Plozouze, France), Frédéric Grassin, Christophe Lancelin, Cécile Tromeur, Jacques Margery, Henri Berard, Antoine Cuvelier, Thomas Egenod, Christos Chouaid, Frédéric Gagnadoux, Nicolas Venissac, Christine Donzel-Raynaud, Mallorie Kerjouan, Lionel Falchero, Jacques Le Treut, Olivier Tiffet, Isabelle Pichon, Angelina Dion, Francis Couturaud

OA3842

**Tumor marker assessment in cytologically negative pleural effusions from lung cancer by Machine Learning-based approach**

Stefano Elia (Roma (RM), Italy), Gianni D'Angelo, Alessandro De Stefano, Renato Massoud, Roberto Sorge, Claudio Cortese

OA3843

**Is there still a diagnostic indication for surgical biopsy in Interstitial Lung Diseases? A Comparative study between Cryobiopsy and Surgical Biopsy on 677 patients.**

Stefano Sanna (Forli, Italy), Claudia Ravaglia, Marta Mengozzi, Desideria Argnani, Anna Marianiorenti Parisi, Sara Tomassetti, Jury Brandolini, Venerino Poletti, Maurizio Salvi

OA3844

**Relationship between emphysematous lung volume and pulmonary function changes for lobectomized patients.**

Masanori Yokoba (Sagamihara (Kanagawa prefecture), Japan), Tsuyoshi Ichikawa, Shinya Harada, Tomoya Fukui, Satoshi Igawa, Hisashi Mitsufuji, Jiichiro Sasaki, Masaru Kubota, Katsuhiko Naoki, Yukitoshi Sato, Masato Katagiri

OA3845

**Systematic Review and Meta-Analysis of Endoscopic Lung Volume Reduction Using Endobronchial Valves in Severe Emphysema: Are They Better?**

Luca Bertolaccini (Bologna (BO), Italy), Fabrizio Minervini, Piergiorgio Solli, Benedetta Bedetti, Alberto Pesci, Roberto Crisci, Marco Scarci

OA3846

**Connection in between the parameters of pulmonary rehabilitation and complication rate in thoracic surgery**

Attila Vagvolgyi (Budakeszi, Hungary), Zsolt Rozgonyi, Maria Kerti, Zsuzsanna Balogh, Csaba Feher, Miklos Molnar, Paul Vadasz, Janos Tamas Varga

OA3847

**Multicentre Validation of a Prediction Score of Prolonged Air Leak for VATS Lobectomies**

Luca Bertolaccini (Bologna (BO), Italy), Benedetta Bedetti, Davide Patrini, Yaron Shargall, Piergiorgio Solli, Emanuele Pirondini, Roberto Crisci, Marco Scarci

OA3848

**Uniportal Videothoracoscopic Surgery on awake patients**

Kalliopi Athanassiadi (Athens, Greece), Ioannis Alevizakis, Ioanna Sigala, Niki Giannii, Afroditi Anthoni, Dimitrios Magouliotis, Ioannis Kalomenidis, Spiros Zakynthinos

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**7.2A  
Session 413  
10:45 - 12:45**

**Poster discussion: How far are we in terms of predicting mortality and exacerbations in COPD?**

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections

**Method(s):** Respiratory intensive care, Physiology, Epidemiology, Public health, General respiratory patient care

**Chairs:** Alexander Mathioudakis (Manchester, United Kingdom), Müge Meltem Tor (Istanbul, Turkey)

PA3849

**Late Breaking Abstract - Detection of clinical instability by eNose in COPD patients**

Job J.M.H. van Bragt (Amsterdam, Netherlands), Rianne De Vries, Yennece F.W. Dagelet, Susanne J.H. Vijverberg, Sigrid Kester, Johannes C.C.M. In 'T Veen, Eric G. Haarman, Annelies Lucas, Frans H.C. De Jongh, Peter J. Sterk, Anke H. Maitland-Van Der Zee

PA3850

**Short Physical Performance Battery and long term prognosis following severe acute exacerbation of COPD: a prospective cohort study**

Ruth Barker (Aylesbury (Buckinghamshire), United Kingdom), Samantha S.C. Kon, Sarah E Jones, Matthew Maddocks, Wei Gao, Claire M Nolan, Suhani Patel, Hoi Yee Kwan, Stuart F Clarke, Michael I Polkey, Paul Cullinan, William D-C Man

PA3851

**Prognosis of COPD patients admitted to the ICU in middle income countries**

Ivan Kopitovic (Novi Sad, Republic of Serbia), Marija Vukoja, Moldovan Sabo, Zhigang Chang, Yimin Li, Harpreet Singh, Ozlem Cakin, Srdjan Gavrilovic, Ana Andrievic, Manuel Hache, Rahul Kashyap, Yue Dong, Ognjen Gajic
Predictive value of CD14 and CD31 microparticles for the survival of COPD during 7 years
István Ruzsics (Pécs, Hungary), Margit Tőkés-Füzesi, Marianna Matancic, Veronika Sárosi, Gábor Woth, Tihamér Molnár

Cluster phenotyping as an approach to identify COPD patients at risk of poor prognosis.
Kristian Brat (Brno, Czech Republic), Marek Plutinsky, Vladimir Koblizek, Jaromir Zatloukal, Patrice Popelkova, Tomas Dvorak, Petr Safranek, Dmitry Rakita, Petr Vanik, Zuzana Liptakova, Lucie Heribanova, Pavlina Musilova, Milada Sipkova, Eva Kocova, Barbora Novotna, Ondrej Kudela, Michal Kopecky, Katerina Neumannova, Michal Svoboda, Jiri Jarkovsky, Zuzana Zbozinkova, Jan Svancara, Jaroslav Lnenicka, Vladimir Rihak

Predicting hospital readmissions in severe COPD patients using an electronic-nose.
Ana Rodrigo Troyano (Barcelona, Spain), Jordi Giner, Diego Sousa, Jose Luis Merino, Ana Alonso, Anna Feliu, Vicente Plaza, Borja Garcia-Cosio, Alver Agustí, Oriol Sibila

Vitamin-D deficiency & anaemia in patients with acute exacerbations of COPD (AECOPD): morbidity & mortality.
Niamh Cafferky (Sunderland, United Kingdom), Hussun-Ara Shah, Stephen Murphy

Neural respiratory drive (NRD) to predict long term mortality after an acute exacerbation of COPD (AECOPD)
Maxime Patout (Mont-Saint Aignan, France), Leonor Meira, Diego Sousa, Jose Luis Merino, Ana Alonso, Anna Feliu, Vicente Plaza, Borja Garcia-Cosio, Alver Agustí, Oriol Sibila

Elevated circulating MMP-9 is associated with increased exacerbation risk in COPD: results from SPIROMICS and COPDGene

Implementation of the GOLD 2017 disease classification in a real-life COPD cohort
Marek Plutinsky (Brno, Czech Republic), Kristian Brat, Vladimir Koblizek, Patrice Popelkova, Jaromir Zatloukal, Tomas Dvorak, Barbora Novotna, Petr Vanik, Pavlina Musilova, Petr Safranek, Lucie Heribanova, Vladimir Rihak, Milada Sipkova, Dmitry Rakita, Eva Kocova, Katerina Neumannova, Michal Kopecky, Ondrej Kudela, Michal Svoboda, Jan Svancara, Zuzana Zbozinkova, Jaroslav Lnenicka

Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Dennis Wat, Sarah Sibley, Julie Crane

Phenotype-based therapy of COPD: Effect on the rate of COPD exacerbations

GOLD 2017 versus GOLD 2011 - comparison of the risk of exacerbations and mortality in COPD patients
Iliya Krachunov (Pleven, Bulgaria), Nikolay Kyuchukov, Zlatina Ivanova, Petkana Hristova, Plamen Pavlov, Pavlina Glogovska, Tsanya Popova, Yavor Ivanov

Impact of stable state symptoms on the future burden of COPD exacerbations
Konstantinos Kostikas (Basel, Switzerland), Alexander Mackay, Stefan-Marian Frent, Pascal Pfister, Pankaj Goyal, Pritam Gupta, Donald Banerji, Francesco Patalano, Jadwiga A. Wedzicha

COPD exacerbation phenotypes in a five year hospitalisation cohort
Simon Bril (London, United Kingdom), Timothy Jones, Jan Brown, John Hurst, Rama Vancheeswaran

Association between bacterial load and inflammatory gene expression in COPD exacerbations
Hannah O'Farrell (Chermside, Australia), Janet Shaw, Rayleen Bowman, Kwan Fong, Ian Yang

Impact of moderate and severe exacerbations in severe COPD patients
Necdet B Gunsoy (London, United Kingdom), Katie Pascoe, Yumi Asukai, Claire Gait, Dmitry Galkin

VALIDATION OF AN ASSESSMENT TOOL FOR CONTROL IN COPD: ANALYSIS OF CLINICAL VARIABLES.
Pablo Catalan Serra (Valencia, Spain), Bernardino Alcázar, Marc Miravitlles, Maribel Marzo, Juan José Soler-Cataluña
<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
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<tbody>
<tr>
<td>Respiratory infections</td>
<td>Cell and molecular biology, Imaging, Epidemiology, Public health, General respiratory patient care</td>
<td>Daniela Maria Cirillo (Milano (MI), Italy), Alan Altraja (Tartu, Estonia)</td>
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<tr>
<td>PA3867</td>
<td>From policy to practice in Europe: a TBNET survey on the delivery of LTBI screening and treatment amongst migrants</td>
<td>Matthew Burman (London, United Kingdom), Ananna Rahman, Graham Bothamley, Christophe Lange, Heinke Kunst</td>
</tr>
<tr>
<td>PA3868</td>
<td>Cost-Effectiveness of Tuberculosis Screening for Migrant Children in Low-Incidence countries</td>
<td>Jakob Usemann (Basel, Switzerland), Markus Ledergerber, GüNther Fink, Nicole Ritz</td>
</tr>
<tr>
<td>PA3869</td>
<td>Preventing the spread of TB among trans-Mediterranean migrants: the role of therapeutic education</td>
<td>Alessandro Etrusco Martinu (Asti (AT), Italy), Tiziana Stobbione, Rudina Lika</td>
</tr>
<tr>
<td>PA3870</td>
<td>Increasing foreign born tuberculosis cases in Turkey and their detailed analysis with 2016 data.</td>
<td>Suha Özkan (Ankara, Turkey), Erhan Kabasalak, Ayşeçil Yıldırım, Funda Baykal, Zeki Kılıçaslan, Şeref Özraka</td>
</tr>
<tr>
<td>PA3871</td>
<td>Risk factors for tuberculosis in patients with history of incarceration</td>
<td>Soumaya Ben Saad (Ariana, Tunisia), Nourelhouda Mbarek, Ines Mejri, Fatma Tritar</td>
</tr>
<tr>
<td>PA3872</td>
<td>Treatment of latent tuberculosis infection among healthcare workers at a tertiary hospital in Korea</td>
<td>Eun Hye Lee (Seoul, Republic of Korea), Ji Eun Park, Mi Hwa Shin, Sang Hoon Lee, Ah Young Leem, Song Yee Kim, Ji Ye Jung, Moo Suk Park, Young Sam Kim, Joon Chang, Young Ae Kang</td>
</tr>
<tr>
<td>PA3873</td>
<td>Stigma towards tuberculosis patients amongst healthcare workers: Assessing a survey study</td>
<td>Mehmet Sinan Bodur (Diyarbakir, Turkey), Mahsuk Taylan, Haluk Çalışir</td>
</tr>
<tr>
<td>PA3874</td>
<td>The risk factors of latent tuberculosis infection among health care workers in South Korea, an intermediate tuberculosis burden country</td>
<td>Jae Seuk Park (Cheonan, Republic of Korea), Gu Hyun Hong, Doh Hyung Kim, Kim Donati (<a href="mailto:kim.donati@uliege.be">kim.donati@uliege.be</a> / ULiège,Liège), Catherine Gerard (<a href="mailto:catherine.gerard@uliege.be">catherine.gerard@uliege.be</a> / ULiège,Liège), Bernard Duysinx (<a href="mailto:bduyinsx@chu.ulg.ac.be">bduyinsx@chu.ulg.ac.be</a> / CHU,Liège), Agnes Noel (<a href="mailto:agnes.noel@ulg.ac.be">agnes.noel@ulg.ac.be</a> / ULiège,Liège), Didier Cataldo (<a href="mailto:didier.cataldo@uliege.be">didier.cataldo@uliege.be</a> / ULiège/CHU,Liège)</td>
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<td>PA3875</td>
<td>The knowledge and attitudes of hospital staff about tuberculosis</td>
<td>Ilknur Basyigit (Kocaeli, Turkey), Serap Arıgın Baris, Ersin Akılınç, Elif Karasal, Hasım Boyacı</td>
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<td>PA3876</td>
<td>Occupational tuberculosis screening for healthcare workers in a UK centre</td>
<td>Mimi Li (Stockton-on-Tees (Cleveland), United Kingdom), Mark Schwec, Nigel Clerk, George Antunes</td>
</tr>
<tr>
<td>PA3877</td>
<td>Effectiveness of X-ray tuberculosis screening in countries with a high burden of tuberculosis</td>
<td>Denis Karostik (Saint-Petersburg, Russian Federation), Irina Kamyshanskaya, Alexander Vodovatov</td>
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<tr>
<td>PA3878</td>
<td>Cost-effectiveness of two latent tuberculosis infection screening strategies</td>
<td>Raquel Duarte (Porto, Portugal), Ana Sofia Sousa, Ana Isabel Ribeiro, Alvaro Almeida, Ana Maria Correia, Carlos Carvalho</td>
</tr>
<tr>
<td>PA3879</td>
<td>Genetic diversity of M. tuberculosis isolates from patients with drug-resistant TB in Japan</td>
<td>Nobuyuki Kobayashi (Kiyose (Tokyo), Japan), Fumimori Mizukoshi, Tohru Miyoshi-Akiyama, Fumiko Kirikae, Akiko Ichiinose, Keiji Funatogawa, Teruo Kirikae, Ken Ohta</td>
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<tr>
<td>PA3880</td>
<td>Study of molecular-genetic mutations of tuberculosis mycobacteria in patients with pulmonary TB in Azerbaijan</td>
<td>Irada Akhundova (Baku, Azerbaijan), Agigat Kadirova, Rafiq Abuzarov, Nuriya Salimova, Gulzar Alyeova, Mehriban Seyededdinova</td>
</tr>
<tr>
<td>PA3882</td>
<td>Genetic characteristics of M. tuberculosis strains circulating in Belarus</td>
<td>Natalia Yatskevich (Minsk, Belarus), Henadz Hurevich, Alena Skrahina, Alena Nikolensen, Aksana Zalutskaya, Valiantsina Lobik, Hanna Ramanieika, Tatsiana Bushma</td>
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<td>PA3883</td>
<td>Molecular-genetic characteristic of Mycobacterium tuberculosis isolated from people living in closed administrative-territorial formation in Ural region, Russia</td>
<td>Diana Vakhrusheva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Umpeleva, Natalya Ereemeva, Ludmila Golubeva, Ksenya Belousova</td>
</tr>
<tr>
<td>PA3884</td>
<td>Universal genotyping of Mycobacterium tuberculosis (MTb) in Singapore, 2011-2017</td>
<td>Yee Tang Wang (Singapore, Singapore), Leo K Y Lim, Li Yang Hsu, Li-Hwei Sng, Vernon J M Lee, Cynthia B E Chee</td>
</tr>
</tbody>
</table>
### Poster discussion: New insights in testing lung and respiratory muscle functions

**Disease(s):** Airway diseases, Respiratory critical care, Sleep and breathing disorders, Thoracic oncology

**Method(s):** Physiology, Imaging

**Chairs:** Pierantonio Laveneziana (Paris Cedex 13, France), Marieke L. Duiverman (Groningen, Netherlands)

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<th>ID</th>
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<tr>
<td>PA3885</td>
<td>The use of functional respiratory imaging to investigate the impact of an oscillating positive expiratory pressure device on lung dynamics and drug deposition</td>
<td>Jason Suggett (London (ON), Canada), Vlad Kushnarev, Glenn Leemans, Cedric Van Holsbeke, Dennis Belmans, Jan De Backer</td>
</tr>
<tr>
<td>PA3886</td>
<td>The positive and negative predictive values of an oscillometry upper limit of normal amongst the CanCOLD Cohort</td>
<td>Ronald Durandand (Beaconsfield (QC), Canada), Pei Zhi Li, Palmina Mancino, Jean Bourbeau</td>
</tr>
<tr>
<td>PA3887</td>
<td>Oscillometry from the CanCOLD Cohort: correlation with spirometry and patient reported outcomes</td>
<td>Ronald Durandand (Beaconsfield (QC), Canada), Pei Zhi Li, Palmina Mancino, Jean Bourbeau</td>
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<tr>
<td>PA3888</td>
<td>Early experience of oxygen enhanced magnetic resonance imaging (OE-MRI) in ataxia telangiectasia (A-T)</td>
<td>Andrew Pryle (Nottingham (Nottinghamshire), United Kingdom), Marta Tibiletti, Caroline Youle, Shahideh Safavi, Saleh Alenazi, Jan Alappadan Paul, Andrew Cooper, Brett Haywood, Michael Barlow, Rob Dineen, Matthew Hurley, Geoff J M Parker, Andrew Bush, Ian Hall, Jayesh Bhatt</td>
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<tr>
<td>PA3889</td>
<td>Measuring lung inhomogeneity in asthma using a novel non-invasive technique</td>
<td>Nayia Petousi (Oxford (Oxfordshire), United Kingdom), Nicholas Smith, Nick Talbot, Grant Ritchie, Ian Pavord, Peter Robbins</td>
</tr>
<tr>
<td>PA3890</td>
<td>Suppression of thoracic movements with intrapulmonary percussive ventilation in healthy subjects</td>
<td>Gregory Reychner (Bruxelles, Belgium), Nicolas Audag, Geneviève Van Ooteghem, Aurora Carrasco, Xavier Geets, Giuseppe Liistro</td>
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<tr>
<td>PA3891</td>
<td>Further evidence of a sexual dimorphism in central airway size of adult non-smokers</td>
<td>Troy Cross (Rochester, United States of America), Steven Chase, Courtney Wheatley, Robert Wentz, Bruce Johnson</td>
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<tr>
<td>PA3892</td>
<td>Changes in diaphragm stiffness assessed with ultrasound shear wave elastography reflect changes in transdiaphragmatic pressure</td>
<td>Damien Bachasson (Paris, France), Martin Dres, Marie-Cécile Nierat, Jonne Doorduin, Jean-Luc Gennisson, Jean-Yves Hogrel, Thomas Similowski</td>
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<tr>
<td>PA3893</td>
<td>The relationship between diaphragmatic mobility and chest wall expansion in cerebral palsy</td>
<td>Surussawadi Bennett (Khon Kaen, Thailand), Nittaya Tanrangka, Michael Bennett</td>
</tr>
<tr>
<td>PA3894</td>
<td>Mobility, shortening velocity and diaphragmatic thickness between infants born at term lower than and above 6 months of age: a pilot study</td>
<td>Shirley Campos (Recife (PE), Brazil), Rayane Nunes, Helga De Souza, Fernanda Silva, Paulo Magalhães, Leticia Melo, Armêle Dornelas De Andrade, Cyda Reinaux</td>
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<tr>
<td>PA3895</td>
<td>Parasternal intercostal muscle ultrasound measurements correlate with disease severity in chronic obstructive pulmonary disease: a pilot study</td>
<td>Peter Wallbridge (Melbourne (VIC), Australia), Selina Parry, Sourav Das, Candice Law, Gary Hammerschlag, Louis Irving, Mark Hew, Daniel Steinfurt</td>
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<tr>
<td>PA3896</td>
<td>Pathophysiological determinants of the response to hypoglossal nerve stimulation in obstructive sleep apnea</td>
<td>Sara Op de Beeck (Wilrijk, Belgium), Ali Azarbarzin, Marijke Dieitjens, Marc Willemen, Johan A. Verbraecken, Paul H. Van De Heyning, Andrew Wellman, Scott A. Sands, Olivier M. Vanderveken</td>
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<td>PA3897</td>
<td>Multiparametric analysis of sniff nasal inspiratory pressure test in middle stage amyotrophic lateral sclerosis</td>
<td>Jéssica Danielle Medeiros da Fonseca (Santa Cruz, Brazil), Antonio Sarmento, Andrea Aliverti, Layana Marques, Francesca Pennati, Mario Emilio Dourado-Júnior, Guilherme Fregonezi, Vanessa Resqueti</td>
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<td>PA3898</td>
<td>Effects of posture on peak cough flow and respiratory muscle activation in Duchenne muscular dystrophy</td>
<td>Jessica Medeiros, Layana Marques, Guilherme Fregonezi, Priscila Santos, Antonio Sarmento, Ana Marcelino, Natália Lopes, Andrea Aliverti, Mario Emilio Dourado Jr, Vanessa Resqueti</td>
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<tr>
<td>PA3899</td>
<td>Longitudinal study about the relationship between sarcopenia and lung function</td>
<td>Eun Young Heo (Seoul, Republic of Korea), Goh Eun Chung, Ji Won Yoon, So Hee Oh, Deog-Keeom Kim, Hee Soon Chung, Seung Ho Choi</td>
</tr>
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</table>
Prediction of Post Op Complication in Patients with Valvular Heart Surgery Based On O2 Challenge Test and A-a Gradient
Behshid Ghadrdoost (Tehran, Islamic Republic of Iran), Hassan Allah Sadeghi, Sarina Sadeghi

Pulmonary function in very long-term survivors after allogeneic stem cell transplantation (aSCT)
Ole Henrik Myrdal (Oslo, Norway), Phoi Phoi Diep, Ellen Ruud, Johny Kongerud, Liv Ingunn Bjoner Sikkeland, May B. Lund

The clinical implementation of haemoglobin measurement for gas transfer
Brendan Cooper (Edgbaston (Birmingham), United Kingdom), Jay Gadh, James Stockley, Brendan Cooper

Poster discussion: Asthma and allergy in adults and children and their biomarkers

Disease(s): Airway diseases, Respiratory critical care, Respiratory infections
Method(s): Physiology, General respiratory patient care, Respiratory intensive care, Public health, Epidemiology

Chairs: Eva Rönmark (Lulea, Sweden), Chair to be confirmed

Late Breaking Abstract - Associations of fathers and their offsprings weight gain with non-allergic asthma
Marianne Lønnebotn (Bergen, Norway), Roy Miodini Nilsen, Shyamali Dharmage, Karl A. Franklin, Mathias Holm, Christer Janson, Debbie Jarvis, Ané Johannessen, Jorunn Kirkeleit, Andrei Malinovschi, Vivi Schlünssen, Cecílie Svanes, Francisco Gomez Real

Cost variations of asthma over 10 years in adults
Laura Portas (Bolzano (BZ), Italy), Lucia Calciano, Angelo Guido Corsico, Lucia Cazzolletti, Isa Cerveri, Margaret W Gerbase, David Gislason, Rune Gronseth, Joachim Heinrich, Rain Jögi, Ané Johannessen, Alessandro Marcon, Isabelle Pin, Margarethe Wacker, Deborah Jarvis, Christer Janson, Simone Accordini

Possible predictors for allergic sensitization at school age in umbilical cord blood, a prospective birth cohort study
Andras Laszlo Soti (Bern, Switzerland), Jakob Usemann, Kathryn Ramsey, Johanna Manuela Kurz, Bettina Sarah Frauchiger, Bianca Schaub, Urs Frey, Philipp Latzin, Oliver Fuchs

Increased prevalence of allergic rhinitis in young men in Western men
Styliana Vasileiadou (Göteborg, Sweden), Emma Goksör, Goeran Wennergren, Roxana Mincheva, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

Physical activity in middle-aged and older asthmatics
Emmely W. de Roos (Rotterdam, Netherlands), Chantal Koolhaas, Johannes In 'T Veen, Bruno Stricker, Guy Brusselle, Lies Lahousse

Associations between Fluorescent Oxidation Products (FIOPs) level and change in asthma outcomes
Miara Andrianjafimasy (Villejuif cedex, France), Zeina Akiki, Farid Zerimech, Nicole Le Moual, Valérie Siroux, Orianne Dumas, Régis Matran, Rachel Nadif

Outdoor air pollution, fluorescent oxidation products and persistent asthma: the EGEA study
Anaïs Havet (Villejuif, France), Zhen Li, Farid Zerimech, Margaux Sanchez, Valerie Siroux, Nicole Le Moual, Bert Brunekeuf, Nino Künzli, Benedictie Jacquemin, Raphaëlle Varraso, Regis Matran, Rachel Nadif

New sensitization to Aspergillus fumigatus in adult asthma over a 10-year observation period
Kentaro Watai (Sagamihara (Kanagawa prefecture), Japan), Yuma Fukutomii, Hiroaki Hayashi, Maki Iwata, Kísakó Nagayama, Yuto Nakamura, Jun Tanaka, Yuto Hamada, Kai Ryu, Yasuhiro Tomita, Chiihiro Mistui, Yosuke Kamide, Kiyoshi Sekiya, Akio Mori, Koichiro Asano, Masami Taniguchi

Molecular Epidemiology of Klebsiella pneumoniae: multilocional dissemination of CTX-M-15 Extended Spectrum B-lactamase
Cátia Caneiras (Lisboa, Portugal), Sagario Mayoralas Alises, Luis Lito, José Melo Cristino, Aida Duarte

Prevalence of adventitious lung sounds in a large population sample.
Juan Carlos Aviles Solis (Trondheim, Norway), Cristina Jacome, Hans Pasterkamp, Hasse Melbye

Lung function in adults conceived by assisted reproductive technologies.
Liam Welsh (Melbourne (VIC), Australia), Sharon Lewis, Joanne Kennedy, Markus Juonala, John MCBain, Sarah Ranganathan, Jane Halliday

Incidence and remission of asthma in adults: results from the West Sweden Asthma Study
Eivind Christian Borna (Moss, Norway), Bright I Nwaru, Roxana Mincheva, Emma Goksör, Linda Ekerljung
PA3916 Adolescent smoking by parents and asthma in their children: repeat cross-sectional surveys in England
James Potts (London, United Kingdom), Cecile Svanes, Simone Accordini, Deborah Jarvis

PA3917 A retrospective observational study to characterize severe eosinophilic asthma in Taiwan
Yu-Fan Ho (Singapore, Singapore), Sumitra Dumas, Sebastien Chanoine, Sofia Temam, Gianluca Severi, Marie-Christine Boutron-Ruault, Jan-Paul Zock, Valerie Siroux, Raphaëlle Varraso, Nicole Le Moual

PA3918 Severe asthma among adults: Prevalence and clinical characteristics
Helena Backman (Lulea, Sweden), Sven-Arne Jansson, Caroline Stridsman, Berne Eriksson, Linnea Hedman, Britt-Marie Eklund, Anne Lindberg, Bo Lundback, Eva Ronmark

PA3919 Domestic exposure to irritant cleaning agents and asthma in women
Pierre Lemire (Villejuif, France), Orianne Dumas, Sebastien Chanoine, Sofia Temam, Gianluca Severi, Marie-Christine Boutron-Ruault, Jan-Paul Zock, Valerie Siroux, Raphaëlle Varraso, Nicole Le Moual

PA3920 Maternal stress at work and in private life during pregnancy and offspring asthma
Kathrine Pape (København Ø, Denmark), Camilla Sandal Sejbæk, Hans Bay, Henrik Albert Kolstad, Jørn Olsen, Karin Sørig Hougaard, Kirsten Skamstrup Hansen, Line Rosendahl Meldgaard Pedersen, Niklas Worm Andersson, Reiner Rugulies, Xiaoqin Liu, Vivi Schlunssen

7.3J Session 417 10:45 - 12:45
Poster discussion: Pathobiology of pulmonary hypertension

Disease(s) : Pulmonary vascular diseases  Airway diseases
Method(s) : Physiology  General respiratory patient care  Cell and molecular biology
Chairs : Christophe Guignabert (Paris, France), Martin Wilkins (London, United Kingdom)

LSC - 2018 - Pulmonary vascular remodeling mediated by ADORA2B in pulmonary artery smooth muscle cells
Tinne C. J. Mertens (Houston, United States of America), Ankit Hamandlu (anikit.hamandlu@utexas.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Ly Tu (Ly.Tu@inserm.fr / INSERM UMR_S 999, Université Paris-Sud, LE PLESSIS-ROBINSON), Carole Phan (phan.carole@gmail.com / INSERM UMR_S 999, Université Paris-Sud, LE PLESSIS-ROBINSON), Scott Collum (scott.d.collum@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Ning-Yuan Chen (ning-yuan.chen@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Jonathan Davies (jhdavies@texaschildrens.org / Department of Pediatrics, Baylor College of Medicine, Houston), Ashrith Guha (gashrith@houstonmethodist.org / Debakey Heart & Vascular Center, Houston Methodist Hospital, Houston), Holger Eltzschig (holger.eltzschig@uth.tmc.edu / Department of Anaesthesiology, McGovern Medical School, UTHealth, Houston), Michael Blackburn (michael.r.blackburn@uth.tmc.edu / UTHealth, Houston), Harry Karmouty-Quintana (harry.karmouty@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston), Christophe Guignabert (guignabert@gmail.com / INSERM UMR_S 999, Université Paris-Sud, Houston), Harry Karmouty-Quintana (harry.karmouty@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UTHealth, Houston)

LSC - 2018 - Alternative Polyadenylation(APA) modulates extracellular matrix deposition in pulmonary hypertension
Scott Collum (Houston, United States of America), Tingting Weng (Tingting.Weng@uth.tmc.edu / UTHealth, Houston), Adriana Hernandez (Adriana.M.Hernandez@uth.tmc.edu / UTHealth, Houston), Tinne Mertens (Tinne.C.Mertens@uth.tmc.edu / UTHealth, Houston), Ning-Yuan Chen (Ning-Yuan.Chen@uth.tmc.edu / UTHealth, Houston), Ashrith Guha (gashrith@houstonmethodist.org / Debakey Heart & Vascular Center, Houston Methodist Hospital, Houston), Keith Youker (kayouker@houstonmethodist.org / Debakey Heart & Vascular Center, Houston), Eric Wagner (ewagner@UTMB.EDU / UTMB, Galveston), Leng Han (Leng.Han@uth.tmc.edu / UTHealth, Houston), Michael Blackburn (Michael.R.Blackburn@uth.tmc.edu / UTHealth, Houston), Harry Karmouty-Quintana (Harry.Karmouty@uth.tmc.edu / UTHealth, Houston)

NMR serum metabolomics for understanding the pathophysiology of COPD associated PH: A pilot study
Koel Chaudhury (Kharagpur (West Bengal), India), Priyanka Choudhury, Nilanjana Ghosh, Mamata Joshi, Parthasarathi Bhattacharyya

KCNK3 channel inactivation leads to pulmonary vascular alterations in rat
Mélanie Lambert (Le plessis robinson, France), Veronique Capuano, Annele Boet, Aurelie Hautefort, Thomas Bertero, Boris Manoury, David Montani, Marc Humbert, Frederic Perros, Fabrice Antigny

Implication of the histone methyltransferase EZH2 in pulmonary arterial hypertension
Olivier Boucherat (Québec (QC), Canada), Karima Habbout, Steeve Provencer, Sébastien Bonnet

Functional changes in peripheral blood derived outgrowth endothelial progenitor cells from PAH patients in response to hypoxia
Rebecca Harper (Adelaide (SA), Australia), Suzanne Maiolo, Michaela Cockshell, Claudine Bonder, Paul Reynolds

Pulmonary Arterial Hypertension Affects the Rat Gut Microbiome
Francisco Perez Vizcaino (Madrid, Spain), Maria Callejo, Gema Mondejar-Parreño, Bianca Barreira, José Luis Izquierdo-Garcia, Daniel Morales-Can, Sergio Esquivel-Ruiz, Laura Moreno, Angel Cogolludo, Juan Duarte
PA3928  A novel piperidine attenuates pulmonary arterial hypertension via regulating BMP2 and PTGS2 levels
Jun Yang (, China), Yanjiang Xing, Fang Zhou, Xin Zhao, Rafia Al-Lamki, Mingxia Du, Guangdong Shang, Nicholas W Morrell

PA3929  The BRD4-PLK1 Axis Drives Vascular Remodeling in PAH
Olivier Boucherat (Québec (QC), Canada), Eve Tremblay, Sandra Martineau, Ravi Jahagirdar, Ewelina Kulikowski, Steeve Provencher, SéBastien Bonnet

PA3930  Role of CHK1 in Pulmonary Arterial Hypertension
Olivier Boucherat (Québec (QC), Canada), Alice Bourgeois, Sandra Breuils-Bonnet, Steeve Provencher, SéBastien Bonnet

PA3931  Mutations in the bone morphogenetic protein receptor 2 promoter 2 promoter in heritable pulmonary arterial hypertension
Christina Eichstaedt (Heidelberg, Germany), Jie Song, Rebecca Rodriguez Viales, Zixuan Pan, Christine Fischer, Katrin Hinderhofer, Ekkehard Grüning

PA3932  Immune repertoire-based signatures in pre-capillary pulmonary hypertension
Sylvia Cohen-Kaminsky (Paris, France), Sebastien Dumas, Morad Nakhleh, David Montani, Barbara Girerd, Andreij Seferian, Peter Dorfmuller, Isabelle Klingel-Schmitt, Matthieu Vocelle, Anais Courtier, Orchidee Filipi-Santo, Gilles Parmentier, Solene Perez, Caroline Superbielle, Sophie Caillat-Zucman, Darcevelle Philippe, Gerald Simonneau, Frederic Perros, Marc Humbert

PA3933  Long noncoding RNA H19 in the pathogenesis of right ventricular failure with pulmonary arterial hypertension
Junichi Omura (Osaka, Japan), Sandra Breuils-Bonnet, Olivier Boucherat, Steeve Provencher, Sébastien Bonnet

PA3934  Outgrowth, proliferative speed and angiogenic capacity of Endothelial Colony Forming Cells (ECFC) correlate with disease severity and right ventricular (RV) adaptation in Pulmonary Arterial Hypertension (PAH) patients
Josien Smits (Amsterdam, Netherlands), Dimitar Tasev, Robert Szulcek, Stine Andersen, Steffen Ringaard, Janus Hyldebradt, Asgar Andersen, Anton Vonk-Noordegraaf, Pieter Koelwijk, Harm-Jan Bogaard

PA3935  Uric acid contributes to the progression of pulmonary hypertension in rodents and humans
Laurent Savale (Le Kremlin-Bicêtre, France), Satoshi Akagi, Ly Tu, Raphael Thuillet, Jennifer Bordenave, Thimoté Quatremer, Amélie Cumont, Carole Phan, Alice Huertas, Marc Humbert, Yuichi Tamura, Christophe Guignabert

PA3936  Fine structural modifications of heparan sulfate sulfation patterns in lung are associated with functional effects in Precapillary Pulmonary Hypertension
Patricia ALBANESE (Creteil, France), Sébastien Dumas, Benoit Ranchoux, Sara Shamdani, Sandrine Chantepie, Minh Bao Huynh, David Montani, Barbara Girerd, Peter Dorfmuller, Elie Fadel, Philippe Darceveille, Frederic Perros, Marc Humbert, Dulce Papy-Garcia, Sylvia Cohen-Kaminsky

PA3937  Pharmacological activation of Nur77 enhances BMP signalling and inhibits vascular remodelling in pulmonary arterial hypertension
Konda Babu Kurakula (Leiden, Netherlands), Xiao-Qing Sun, Chris Happé, Marie-José Goumans, Harm Jan Bogaard

PA3938  NMDA receptor activation promotes vascular remodeling and pulmonary arterial hypertension
Sylvia Cohen-Kaminsky (Paris, France), Sebastien Dumas, Gilles Bru-Mercier, Audrey Courboulin, Marceau Quatredeniers, Catherine Rucker-Martin, Fabrice Antigny, Morad Nakhleh, Benoit Ranchoux, Elodie Goudou, Maria-Candida Vinhas, Matthieu Vocelle, Nicolas Raymond, Peter Dorfmuller, Elie Fadel, Frederic Perros, Marc Humbert

No Room

Game Zone: GAME ZONE - SESSION 6

Ultrasound
Maryam Ahmed (Manchester, United Kingdom), Judith Lyons (, United Kingdom)

Interventional bronchoscopy
Fausto Leoncini (Montespertoli (FI), Italy), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Rein Posihuma (Maastricht, Netherlands)

TP-01

Thematic poster: Tests and trends in asthma

Disease(s) : Respiratory critical care, Airway diseases, Sleep and breathing disorders

Method(s) : Physiology, Endoscopy and interventional pulmonology, Imaging, Epidemiology, Cell and molecular biology, Public health, General respiratory patient care

Chairs : Jean-Marie Nguyen Quang (Paris, France), Rachel Nadif (Villejuif, France), Jodie Simpson (New Lambton, Australia)
Time trends in clinical characteristics of patients with severe asthma: data from the Belgian Severe asthma register (BSAR)
Stephanie Dobbelaere (Gent, Belgium), Florence Schleich, Renaud Louis, Olivier Vandenplas, Alain Michils, Charles Pilette, Rudi Peche, Guy Joos, Guy Brussele

Accuracy of objective tests for diagnosing adult asthma in symptomatic patients: A systematic literature review and hierarchical Bayesian latent-class meta-analysis.
Hiroyuki Sano (Osakasayama, Japan), Katsuyuki Tomita, Akiko Sano, Osamu Nishiyama, Takashi Iwanaga, Yuji Tohda

Clinical predictors of the effectiveness of tiotropium in adults with symptomatic asthma: the real-life data
Wen-Chien Cheng (Taichung, Taiwan), Chih-Yen Tu, Biing-Ru Wu, Chih-Yu Wei, Chun Chen, Te-Chun Hsia, Wei-Chih Liao, Chi-Hung Chen, Wu-Huei Hu

Comorbidities in asthma, what impact?
hagar kchouk (tunis, Tunisia), Haifa Zaibi, Jihen Ben Ammar, Dorra Karray, Mohamed Ali Baccar, Saloua Azzabi, Besma Dhahri, Hichem Aouina

Targeting PDE3 Abrogates the Hallmarks of Asthma in Asthma Models
Alex Kleinjan (Choose State, Netherlands), Jan Beute, Keerthana Ganesh, Melanie Lukkes, Menno Van Nimwegen, Steve Hockman, Vince Manganelli, Rudi Hendriks

Knowledge of pulmonologists, allergists, ENTS and paediatricians related to maintenance asthma treatment
Désirée Larenas-Linnemann (mexico, Mexico), M Glukhova , S Krasilnikova, E Tush , T Eliseeva , O Khaletsksya , L Murakaeva, Igor Klimanov, I Balabkin

The bronchial asthma and upper respiratory tract multimorbidity in children
Natalia POPOVA (Moscow, Russian Federation), M Glukhova , S Krasilnikova, E Tush , T Eliseeva , O Khaletsksya , L Murakaeva, Igor Klimanov, I Balabkin

Influence of sex in inhaler technique, adherence to treatment and control of Asthma.
Maria Perez Morales (San José del valle, Spain), Gonzalo Jimenez Galvez, Aurelio Amedillo Muñoz, Alberto Levy Naón, Auxiliadora Romero Falcón, Ana Gómez-Bastero Fernández

Who should do the asthma control test: Patient? Physician?
SEVDA COMERT (Istanbul, Turkey), Seda Seyhan Sağmen, Coskun Dogan, Elif Torun Parmaksız, Ali Fidan, Banu Salepci, Nesrin Kırıl

The influence of the environment on the asthma
Arfaoui Hajar (Casablanca, Morocco), Wiam Elkhattabi, Hasna Jabi, Hicham Afif

How to detect sleep disorders in patients treated for asthma and allergic rhinitis?
mariem ferchichi (TUNIS, Tunisia), Houda Snene, Nozha Ben Salah, Khalil Zayen, Achraf Ben Tkhayet, Dorra Bejar, Ines Cherif, Dorra Aouida, Jalloul Daughfous, Nadia Mehiri, Bechir Louzir

Relationship between omalizumab efficacy and baseline allergen profile impacts patient-reported outcomes in allergic asthma
Jing Li (Guangzhou (Guangdong), China), Jian Kang, Lingfei Kong, Jing Yang, Lu Wang, Michael Humphries, Ioannis Koitakis, Robert Fogel, Xiang Hong Lau, Nanshan Zhong

A national audit of severe life-threatening asthma in Singapore
Ser Hon Puah (Singapore, Singapore), Anthony Yii, Hui Fang Lim, Tunn Ren Tay, Lay Ping Neo, Andrew Li, Priscilla Lau, Rae-Ann Tan, Li Leng Tan, John Abisegamaden, Tow Keang Lim, Mariko Siyue Koh

Effects of endotoxin inhalation and it with ICS/LABA inhalation on diaphragm muscle contractile properties in mice
Chiyohiko Shindoh (Sendai, Japan), Yuriko Shindoh, Masahito Miura

Dependence of quality of life on cellular patterns of inflammation in asthma patients
Natalia Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Anna Prikhodko, Leonid Nakhamchen

Phenotyping asthma patients in the ED: 6 months experience in Naples
Francesca Simioli (Napoli (NA), Italy), Maria Martino, Antonio Molino, Anna Agnese Stanziola, Lucia Gallinaro, Maria D’Amato

Unraveling adenosine and AMP induced dyspnea sensation in asthma
Claire A. Cox (Groningen, Netherlands), Ilse M. Boudewijn, Sebastiaan J. Vroegop, Siebrig Schokker, Anne J. Lexmond, Hendrik W. Frijlink, Paul Hagedoorn, Judith M. Vonk, Martijn P. Farenhorst, Nick H.T. Ten Hacken, Huib A.M. Kerstjens, Maarten Van Den Berge
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<tr>
<td>PA3962</td>
<td>Virtual Patient Journeys: A novel aid for teaching asthma to medical students</td>
<td>Joseph Salem (London, United Kingdom), Junaid Fukuta</td>
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<tr>
<td>PA3963</td>
<td>Fixed airway obstruction in patients with severe asthma</td>
<td>Galina Sergeeva (St. Petersburg, Russian Federation), Alexander Emelyanov, Evgenia Leshenkova, Antonina Znakhurenko, Nana Asatiani</td>
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**TP-02 Session 423 12:50 - 14:40**

**Thematic poster: Asthma and drugs**

**Disease(s):** Airway diseases Respiratory critical care

**Method(s):** Epidemiology Respiratory intensive care Public health Endoscopy and interventional pulmonology General respiratory patient care Imaging Physiology

**Chairs:** Stefan Blaas (Regensburg, Germany), Yasemin Türk (Rotterdam, Netherlands), Michiko Haida (Tokyo, Japan), Mark Fitzgerald (Vancouver (BC), Canada)

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<tr>
<td>PA3965</td>
<td>Clinical-functional manifestations of osmotic airway hyperresponsiveness in asthma patients</td>
<td>Evgenia Y. Afanaseva (Blagoveshchensk (Amur Oblast), Russian Federation), Anna G. Prikhodko</td>
</tr>
<tr>
<td>PA3966</td>
<td>Overlapping biological drugs prescription status: real life in Genoa</td>
<td>Diego BagNASCO (GENOVA (GE), Italy), Teresita ALOE, Tommaso BONDAVALLI, Elisa Testino, Andrea Manfredi, Giovanni PassalaquA</td>
</tr>
<tr>
<td>PA3967</td>
<td>Evaluation of nationwide quality control indicators of asthma treatment</td>
<td>So-My Koo (Seoul, Republic of Korea), Minseong Kim, Gun Woo Park, Sungho Won, Hyeon-Jong Yang</td>
</tr>
<tr>
<td>PA3968</td>
<td>Adjustable maintenance dosing with budesonide/formoterol provides effective asthma symptom control at a lower average dose than with fixed dosing – 6-month study</td>
<td>Olha S. Tolokh (Lviv, Ukraine), Nadiya D. Rudnytska</td>
</tr>
<tr>
<td>PA3969</td>
<td>Features of adult-onset (19+) difficult asthma differ by sex in the WATCH cohort.</td>
<td>Clair Barber (Southampton (Hampshire), United Kingdom), Kerry Gove, Deborah Knight, Frances Mitchell, Hans Michael Haitchi, Colin Newell, Paddy Dennison, Tom M Wilkinson, Peter H Howarth, Ramesh J Kurukulaarachy</td>
</tr>
<tr>
<td>PA3970</td>
<td>Association between asthma exacerbations and air pollution in Badalona (Barcelona), (2008-2016).</td>
<td>Zoran Stojanovic (Girona, Spain), Carlos Martinez-Rivera, Ignasi Garcia-Olivé, Joaquim Radua, Jorge Abad-Capa</td>
</tr>
<tr>
<td>PA3971</td>
<td>Quality of life (QOL) and pulmonary rehabilitation (PRP): Functional correlates in asthma and COPD outpatients</td>
<td>Daryna Semotyuk (Lviv, Ukraine), Krystyna Volnytska</td>
</tr>
<tr>
<td>PA3972</td>
<td>Preferences for current inhaler devices in patients with asthma</td>
<td>Diana Paulina Chiluiza Reyes (Madrid, Spain), Beatriz Martin, Ana Jaureguizar, Francisco León, Esther Barbero, Edwin Mercedes, Carlos Almonacid</td>
</tr>
<tr>
<td>PA3973</td>
<td>Indirect airway challenges and asthma related conditions in healthy active individuals</td>
<td>William Gowers (Whitstable, United Kingdom), Anna Jackson, James Hull, James Hopker, John Dickinson</td>
</tr>
<tr>
<td>PA3974</td>
<td>Effect of a short-term yoga-based lifestyle intervention on lung function and quality of life in bronchial asthma patients</td>
<td>Eva Eva (New Delhi (Delhi), India), Ritesh Netam, Anjana Talwar, Anant Mohan, Raj Kumar Yadav, Saurabh Mittal, Hanjabam Barun Sharma, Sanjay Patel</td>
</tr>
<tr>
<td>PA3975</td>
<td>Contribution of respiratory function in asthma</td>
<td>Kenza Fezaa (algiers, Algeria), Leila Laouar, Wafia Bourekoua, Mohamed Tayeb Makhloifi, Samya Taright</td>
</tr>
<tr>
<td>PA3976</td>
<td>Asthma control and psychological status in university students</td>
<td>Snezana Stojanovic Ristic (Belgrade, Republic of Serbia), Branislava Milenkovic, Milan Latas, Zaklina Davicevic Elez, Tamara Lukic, Jelena Jankovic, Sanja Dimic Janjic, Natasa Djurdjevic</td>
</tr>
<tr>
<td>PA3977</td>
<td>Identifying Asthmatic Children using Tidal Breathing Parameters Measured by Structured Light Plethysmography (SLP)</td>
<td>Hamzah Hmeidi (Ely, United Kingdom), Hamzah Hmeidi (Stoke-on-Trent (Staffordshire), United Kingdom), Shayan Motamedi Fakhri, Ed Chadwick, Francis Gilchrist, Rachel Wilson, Warren Lenney, Richard Iles, John Alexander</td>
</tr>
</tbody>
</table>
PA3978 Developing datasets for a national audit of hospital asthma care and organisation in England and Wales.
Rachael Andrews (London, United Kingdom), Viktoria Mcmillan, Christopher M Roberts, Shuaib Nasser

PA3979 Challenges faced by Indian pediatricians in management of pediatric asthma in clinical practice.
Shrikant Pawar (Pune (Maharashtra), India), Monica Barne, Noopur Hedawoo, Nisha Kale, Sapna Madas, Sundee Salvi

PA3980 Relationship between alexithymia and psychological status in university students with asthma
Branislava Milenković (Beograd, Republic of Serbia), Snezana Ristic, Tamara Lukić, Zaklina Davicevic-Elez, Jelena Jankovic, Natasa Djurdjevic, Sanja Đimic Janjić

PA3981 Objective characterisation of difficult asthma in the WATCH study
Anna Freeman (Southampton, United Kingdom), Heena M Mistry, Adnan Azim, Matt A E Harvey, Kerry Gove, Hans Michael Haitchi, Colin Newell, Paddy Dennison, Tom M Wilkinson, Ramesh J Kurukulaarachchi

PA3982 Uncontrolled asthma among patients attending a Specialist Respiratory Clinic in a resource-constrained setting
Gayani Liyanage (Welisara, Sierra Leone), Eshanth Perera

PA3983 Improvement of small airway deposition of corticosteroids by smart nebulisation
Bernhard Müllinger (Gauting, Germany), Juliane Schick, Gary Burgess, Sue Snape

TP-03 Session 424 12:50 - 14:40
Thematic poster: Clinical markers of asthma

Disease(s) : Airway diseases, Sleep and breathing disorders
Method(s) : Public health, Endoscopy and interventional pulmonology, General respiratory patient care, Cell and molecular biology, Epidemiology

Chairs : Christophe Leroyer (Brest, France), Alvaro A. Cruz (Salvador (BA), Brazil), Camille Begne (Perigueux, France), Helena Backman (Lulea, Sweden)

PA3984 Loss of smell: a clinical marker of severe asthma
Jose Antonio Castillo Vizuete (Sitges (Barcelona), Spain), Cesar Picado, Vicente Plaza, Gustavo Rodrigo, Berta Juliá, Cristina Fernandez, Joaquim Mullol

PA3985 Chronic hyperventilation in Asthma
Duco Deenstra (Nijmegen, Netherlands), Hanneke Van Helvoort, Noortje Koolen, Remco Djamin, Jeanine Antons, Alex Van ‘T Hul

PA3986 One-year follow-up of asthma patients in a randomised controlled trial of high-intensity training. Are there lasting effects?
Adrian Bentzon (Copenhagen, Denmark), Linda Loehde, Louise Toennesen, Celeste Porsbjerg, Morten Hostrup, Vibeke Backer

PA3987 Correlation between reduced forced expiratory flow between 25% and 75% (FEF 25-75%) and a positive methacholine challenge test (MCT) in adults with non-obstructive baseline spirometry.
Irfan Shafiq (Abu Dhabi, United Arab Emirates), Ali Wahla, Mateen Uzeck, Niyas Parappurath, Zaid Zoumot

PA3988 Clinical and histologic effect of bronchial thermoplasty after 1 year
Roberto Piro (Reggio Emilia (RE), Italy), Carla Galeone, Francesco Menzella, Patrizia Ruggiero, Mirco Lusuardi, Nicola Facciolongo

PA3989 Quality of sleep in asthmatic patients
Abel Pallares Sammartin (Vigo (Pontevedra), Spain), Ana Sogo Sagardia, Maria Victoria González Gutiérrez, Astrid Crespo Lessman, Nuria Marina Malanda, Ruben Andújar Espinosa, Marta Ferrer Galván, Ana Boldova Loscertales, Susana Herrera Lara, Laura Vigil Gimenez, Jose Serrano Pariente, Carolina Cisneros Serrano, Antolin López Viñas, Cesar Picado Vallés, Vicente Plaza Moral

PA3990 Evaluation of pulmonary function after bronchial thermoplasty in the treatment of severe uncontrolled asthma using forced oscillation technique.
Yukiko Shimoda (Shinjuku, Japan), Motoyasu Ikura, Keita Sakamoto, Masao Hashimoto, Satoru Ishii, Shinya Izumi, Masayuki Hojo, Haruhiyo Sugiyama

PA3991 Factors that determine the success of step-up therapy in uncontrolled asthmatic patients in clinical practice
Alexandra Suliana Mogrovejo Calle (Valencia, Spain), Eva Martínez Moragón, Julio Delgado Romero, Manuel Pérez Estrada Cornejo, Ignacio García Nunez, Andrea Crespo Sedano, Antonia Soto Vanegas
Measures of adherence in patients with severe asthma prescribed systemic steroids in the U-BIOPRED cohort

The association of vigorous physical activity with 10-year adult asthma incidence
Melissa Russell (Melbourne (VIC), Australia), Shyamali Dharmage, Elaine Fuertes, Deborah Jarvis, Michael Abramson, Joachim Heinrich, Anja Johannessen, Benedicte Lenaert, Alessandro Marcon, Nicole Probst, Chantal Raherison, Giulia Squillacioti, José-Luis Sánchez-Ramos, Johan Sommar, Judith García-Aymerich

Immediate bronchodilation response in FEV1 as a diagnostic criterion of adult asthma
Leena Esteri Tuomisto (Seinäjoki, Finland), Pinja Ilmarinen, Lauri Lehtimäki, Minna Tommola, Hannu Kankaanranta

Clinical outcomes in non-eosinophilic versus eosinophilic asthma after 12 months specialist management
Morten Hvidtfeldt (København V, Denmark), Asger Sverrild, Vibeke Backer, Celeste Porsborg

Two phenotypes of severe asthma identified by cluster analysis
Olgar Kharevich (Minsk, Belarus), Irina Lapteva, Elena Lapteva

Changes of the blood pressure in asthmatics of different age groups in response to short-time cold airway challenge
Anna G. Prikhodko (Blagoveshchensk (Amur Oblast), Russian Federation), Juliy M. Perelman

Switch from Symbicort Turbuhaler to Bufomix Easyhaler; a real-life prospective study in asthma patients
Paula H. Rytilä (Espoo, Finland), Jörgen Syk, Ines Vinge, Mikael Sörberg

Patterns of sensitization to furry animal allergen components in adult asthma and indicators of severity
Bright Nwaru (Gothenburg, Sweden), Linda Ekerjung, Sigrid Sjölander, Roxana Mincheva, Erik Rönmark, Magnus Borres, Bo Lundbäck, Jan Lötvall

Incremental cost-effective ratio effect of Omalizumab treatment for Severe Allergic Asthma at Danish university Hospital.
Søren Bagge Petersen (Ålborg, Denmark), Ulla Møller Weinreich

Dynamic hyperinflation predicts impaired daily life activity in asthma
A.N. van der Meer (Leeuwarden, Netherlands), K. De Jong, E.H. Bel, A. Ten Brinke

SABA overuse in the Portuguese prescription database
Ana Sá-Sousa (Porto, Portugal), Rute Almeida, Alberto Freitas, João Almeida Fonseca

Association between vitamin D deficiency and risk of uncontrolled asthma development
Vitaly I. Kupaev (Samara, Russian Federation), Maria S. Nurdina

Comparison of CAT and mMRC in terms of assessing symptom status in stable COPD patients
Esra Ertan Yazar (Istanbul, Turkey), Elif Yelda Niksarlıoglu, Burcu Yigitbas, Tugba Mandal

COPD Assessment test (CAT) Score as a predictor of severe exacerbations in veterans
Andrea Guerrero Cignarella (Miami, United States of America), Katherine Tovar, Gisel Urdaneta, Isabel Vital, Gregory Holt, Mehdi Mirsaedi, Rafael Calderon-Candelario, Michael A Campos

The Capacity of Daily Living (CDLM) questionnaire: Evaluating the impact of morning symptoms in COPD.
Aleixa Nuñez (Barcelona, Spain), Miriam Barrecheuguren, Myriam Calle, Ricard Casamor, Marc Miravitlles, Cristina Esquinas

Effect of treatment on morning symptoms in COPD. Correlation between doctors and patients in the evaluation of symptoms. SINCON Study
Adolfo Balorda Villar (Pontevedra, Spain), Juan Antonio Trigueros, Jose Miguel Rodriguez Gozálvez-Moro, Estefanía Sanjuan, Ricard Casamor
### Thematic poster: COPD and extrapulmonary comorbidities

| PA4008 | Qualitative research evaluating patient preferences for a new COPD treatment
| Melanie Schroeder (Middlesex, United Kingdom), Lina Eliasson, Katie Hall, Jake Macey, Sophia Bracey, Paul W Jones, Afisi S Ismaila |

| PA4009 | Differences in medication adherence in chronic obstructive pulmonary disease associated with beliefs on medications
| Huseyin Arikan (Istanbul, Turkey), Dildar Duman, Zeynep Uslu, Derya Kocakaya, Emel Eryuksel |

| PA4010 | Patients’ adherence to COPD therapy
| Ilaria Aredano (Parma (PR), Italy), Francesca De Blasio, Davide Dassetto, Michela Bellochcia, Caterina Bucca |

| PA4011 | Relationships among depression, pain, patient activation, and fatigue in patients with COPD
| Jungee Lee (Kingston, United States of America), Huong Nguyen, Vincent Fan |

| PA4012 | Chronic pain in patients with chronic obstructive pulmonary disease
| Malek Chaabouni (Sfax, Tunisia), Feki Walid, Ketata Wajdi, Moussa Nadia, Bahloul Najla, Msaad Sameh, Kotti Amina, Ayadi Hajer, Rekik Karim, Yangui Ilhem, Kammoun Samy |

| PA4013 | Assessing activity-related cognitions in chronic obstructive pulmonary disease (COPD): validation of the activity cognitions instrument (ACI)
| Milou Looijmans (Groesbeek, Netherlands), Inge J Van Nunen, Mariska P M Klaassen, Jeannette B Peters, Jan H Vercoulen |

| PA4014 | French translation and validation of the C- and D-PPAC PROactive questionnaires to measure physical activity in patients with chronic obstructive pulmonary disease
| Trija Vaidya (NANTES, France), Véronique Thomas-Ollivier, François Hug, Alain Bernady, Frédéric Costes, Hakima Ouksel, Claire De Bisschop, Arnaud Chambellan |

| PA4015 | Patient And Carer Perceptions Regarding The Advanced Lung Disease Service – A New Model Of Integrated Respiratory And Palliative Care
| Natasha Smallwood (Melbourne (VIC), Australia), Thomas Moran, Michelle Thompson, Brian Le, Louis Irving |

| PA4016 | Evaluation of COPD Patient’s Relatives Assessment of Disease Awarenss, Load of Care Giving and Loss of Workforce: Turkish Thoracic Society COPD Working Group

| PA4017 | Correlation of sleep quality and psychological well-being with BODE index and quality of life in stable COPD patients
| Krishna K Sharma (Jaipur (Rajasthan), India), Titiksha Choyal |

| PA4018 | The impact of low forced vital capacity on comorbidities and behavior restriction in chronic obstructive pulmonary disease
| Noeul Kang (Seoul, Republic of Korea), Sun Hye Shin, Sunhye Gu, Seong Yong Lim, Juhee Cho, Hyun Il Gil, Hye Yun Park, Hyun Lee |

| PA4019 | Differences in psychological stage and functional capacity between caregivers of patients with COPD and heart failure in accordance with their levels of perceived self-efficacy

| PA4020 | Drivers of respiratory symptoms in COPD patients
| Kate Johnson (Vancouver (BC), Canada), Abdollah Safari, Wan Tan, Jean Bourbeau, Mohsen Sadatsafavi |

| PA4021 | PAIN AND FRAILTY IN COPD PATIENTS: RELATIONSHIP AND IMPACT ON WELLBEING AND HEALTH STATUS
| Sabina Antoniu (Iasi (Iasi), Romania), Anca Apostol, Robbert Gobbens |

| PA4022 | Physicians’ perceptions on gender differences in the diagnosis and management of COPD
| Chantal Raherison-Semjen (Pessac, France), Karen Mezi, Kostas Kostikas, Alexander Mackay, Dave Singh |

| PA4023 | Impact of a educational program in the use of inhalers in patients derived to a respiratory rehabilitation unit
| Pablo Mariscal Aguilar (Madrid, Spain), Jose Andres Tenes Mayen, Teresa Torralba, Rodolfo Alvarez Sala-Walther, Mercedes Marin, Carlos Carpio, Esther Zamarron De Lucas |

**TP-05**  
Session 426  
12:50 - 14:40  
**Thematic poster: COPD and extrapulmonary comorbidities**
Disease(s) : Airway diseases, Sleep and breathing disorders
Method(s) : Imaging, Physiology, General respiratory patient care, Epidemiology
Chairs : Lowie Vanfleteren (Horn, Netherlands), Fabrizio Luppi (Spilamberto (MO), Italy), Therese Lapperre (København NV, Denmark), Beatriz Abascal Bolado (Santander (Cantabria), Spain)

PA4024 A study of the comorbidity of COPD and type 2 diabetes mellitus
Tatyana Makarova (Moscow, Russian Federation), Vyacheslav Kobylansky, Olga Pivovarova, Anna Sotnikova

PA4025 Role of BMI in the clinical course of COPD patients with type 2 diabetes mellitus
Plamen Titorenkov (Sofia, Bulgaria), Milena Encheva, Aleksandra Chervenivanova, Petar Chipev, Dora Marinova, Kosta Kostov

PA4026 The "sweet" side of the Overlap Syndrome
Silvano Dragonieri (Bari (BA), Italy), Giorgio Castellana, Lorenzo Marra, Valentina Di Lecce, Pierluigi Carratù, Onofrio Resta

PA4027 Metformin predispose acute exacerbations of COPD patients with insulin-dependent diabetes mellitus
Kuan-Yuan Chen (Taipei, Taiwan), Li-Nien Chien, Chien-Hua Tseng, Kang-Yun Lee

PA4028 The effect of comorbidities on long-term survival in COPD
Selma Aydoğan Eroğlu (İstanbul, Turkey), Halil Ibrahim Yakar, Ethem Yıldız, Murat Kavas, Dildar Duman, Hakan Günen

PA4029 Comorbidities in COPD - Impact on mortality
Sara Xavier pires (Porto, Portugal), Penêlope Almeida, Márcia Cravo, Maria Inês Costa, Tiago Oliveira, Sara Vieira Silva, Pedro Leuschner

PA4030 Effect of comorbidities on severity and clinical parameters of COPD
Seoung Ju Park (Jeonju, Republic of Korea), Seung Yong Park, Chin Kook Rhee, Kwang Ha Yoo

PA4031 Evaluation of Co-morbidities among Different Chronic Obstructive Pulmonary Disease Phenotypes
Mohamed Shahat Badawy (Luxor, Egypt), Alaa Rashaad, Rasha Mohamed

PA4032 COPD: CT Thorax - friend or foe': Clinical utility of CT in diagnosing co-morbidities.
Sundee Kaul (London, United Kingdom), Akanksha Vohra, Samavia Raza, Paras Dalal

PA4033 Effects of comorbidities on physical activity in chronic obstructive pulmonary disease
Makoto Yoshida (Fukuoka, Japan), Atsushi Moriwaki, Hisayuki Osoreda, Tetsuya Hiramoto, Tomoaki Iwanaga, Hiromasa Inoue

PA4034 A MULTILATERAL APPROACH TO COPD COMORBIDITIES
Alexandru Corlateanu (Chisiihau, Republic of Moldova), Serghei Covantev, Eugenia Scutaru, Doina Rusu, Olga Corlateanu, Victor Botnaru

PA4035 Gastro-oesophageal reflux, reflux-associated respiratory symptoms and severity of Chronic Obstructive Pulmonary Disease in Sri Lankan patients.
Channa Ranasingha (Colombo 7, Sri Lanka), D Lakmali Amarasinghe, Suresh Chaturanta, Heshara N Hettige, Dilshani G Hitige, Nadun U Gunasekera, Kb Madubashani Wickramaratna, M Ghazzaly Nizamdeen, Kirthi D Gunasekera

PA4036 Medication Effect on Acute Exacerbation and Mortality in Patients with Coexistent COPD and GERD
Vincent Yi-Fong Su (Taipei, Taiwan)

PA4037 The association of respiratory health and cardiovascular risk with structural brain disease in patients with COPD
Daniel Burrage (London, United Kingdom), Sachelle V Ruickbie, Mohani P K Bajaj, Cathy A Spilling, James W Dodd, Thomas R Barrick, Paul W Jones, Emma H Baker

PA4038 Impact of non-alcoholic fatty liver disease on late cardiovascular events and death in Chronic Obstructive Pulmonary Disease
Damien VIGLINO (GRENOBLE, France), Anaïs Plazanet, Sébastien Bailly, Meriem Benmerad, Ingrid Jullian-Desayes, Renaud Tamisier, Vincent Leroy, Jean-Pierre Zarski, Maxime Maignan, Marie Joyeux-Faure, Jean-Louis Pépin

PA4039 COPD: clinical, personality characteristics and psychological defences in development of disadaptive types of attitude to illness
Yanna Galetskayte (Moscow, Russian Federation), Svetlana Ovcharenko, Ekaterina Nikitenko, Sergey Enikolopov, Beatrice Volel

PA4040 Sex differences in COPD comorbidities
Ilaria Aredano (Parma (PR), Italy), Francesca de Blasio, Davide Dassetto, Francesco Coni, Renza Ambrosanio, Anna Maria Rella, Roberta Di Tria, Caterina Bucca
Clinical characteristics and related risk factors of depression in patients with early COPD
Yong Suk Jo (Seoul, Republic of Korea), Min Hye Kang, Jeong Mi Lee, Seoung Woo Han

Severe mental illness in COPD patients: findings from the primary care 2015-17 COPD audit
Gerasimina Garnavos (London, United Kingdom), Viktoria McMillan, Juliana Holzhauer-Barrie, Noel Baxter, Jennifer Quint, Philip Stone, Christopher M Roberts

Anxiety and depression on exacerbation COPD patients
Juliana Gjerazi (Fier, Albania), Irma Tashi, Jolanda Daka, Jul Bushati, Perlat Kapisyzi

Thematic poster: Functional assessment of COPD

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway diseases, Respiratory critical care, Respiratory infections, Pulmonary vascular diseases, Respiratory infections</td>
<td>Respiratory intensive care, Surgery, General respiratory patient care, Physiology, Imaging</td>
<td>Manlio Milanese (Pietra ligure (SV), Italy), Michael Furian (Zürich, Switzerland), Georgios Kaltsakas (Athens, Greece), Lies Lahousse (Ghent, Belgium)</td>
</tr>
</tbody>
</table>

Late Breaking Abstract - Small airway and parenchymal changes are frequent in V/P SPECT of smokers without COPD
Marika Bajc (Lund, Sweden), Linnea Jarenbäck, Kajsa Wiklund, Jaro Ankerst, Ari E. Lindqvist, Leif Bjørner

Late Breaking Abstract - Dietary nitrate supplementation enhances the benefit of pulmonary rehabilitation in people with COPD
Matthew Pavitt (Billingshurst (West Sussex), United Kingdom), Rebecca J Tanner, Adam P Lewis, Sara C Buttery, Bhavin Mehta, Helen Jefford, Katrina J Curtis, Winston Banya, Syed Husain, Karman Satkunam, Dinesh Shrikrishna, William De Man, Michael I Polkey, Nicholas S Hopkinson

Late Breaking Abstract - Combined Use of Inspiratory and Expiratory Threshold Pressure Training with Data Monitor in COPD
Xin Chen (Guangzhou (Guangdong), China), Wen-Hui Xu

Late Breaking Abstract - Effects of a new Airway Clearance Technology versus manual physiotherapy in COPD
Florin Dumitru Mihaltan (Bucuresti, Romania), Laurent Morin, Corina Borcea, Ancuta Costantin, Alexandru Pahontu, Lucia Marinescu, Valentín-Caius Cosei

Late Breaking Abstract - Cardio-pulmonary exercise test indicators of stress left ventricle diastolic dysfunction in non-severe COPD patients
Zheina Chernava (Soča, Bulgaria), Radostina Cherneva, Dinko Valev, Rosen Petkov, Dimitar Kostadinov

Late Breaking Abstract - Dietary nitrate supplementation increases exercise endurance time in COPD patients using ambulatory oxygen
Matthew Pavitt (Billingshurst (West Sussex), United Kingdom), Adam P Lewis, Sara C Buttery, Bernadette O Fernandez, Monika Mikus-Lelinska, Martin Feelisch, Michael I Polkey, Nicholas S Hopkinson

Using the volumetric capnography method in assessing the functional respiratory status of a patient with COPD
Irina Ponomareva (Ryazan, Russian Federation), Sergei Subbotin, Vladimir Abrosimov

Assessment of the physical capacity in patients hospitalized with COPD
Mārtiņš Pētraņs (Riga, Latvia), Madara Tirzīte

Is the “Sit-to-stand test” a good tool for evaluating oxygen desaturation in COPD?
Ana Luisa Fernandes (Matosinhos, Portugal), Zita Camilo, Graciete Luís, Inês Neves, Jorge Ferreira, Paula Simão

Maximal voluntary inspiratory breath holding time test in patients with chronic obstructive pulmonary disease
Azza Slim (tunis, Tunisia), Abir Hedhli, Sana Cheikh Rouhou, Nourelhouda Mbarek, Amir Taboubi, Safa Benkhaled, Yassine Ouahchi, Jouda Cherif, Meriem Mjid, Sonia Toujani, Samira Merai

Multi-night continuous nocturnal oxygen saturation measurements in patients with COPD
Joren Buekers (Mol, Belgium), Jean-Marie Aerts, Jan Theunis, Anouk Vaes, Emiel Wouters, Martijn Spruit, Patrick De Boever

Does the decrease in KCO go typically with DLCO decrease in obstructive pulmonary diseases? The relationship with DLCO, KCO, VA and VA/TLC in patients with COPD?
Esra Sönmez (Istanbul, Turkey), Gokhan Erdogan, Hisam Alahdab, Mehmet Atilla Uysal

Cough reflex sensitivity in exacerbations of chronic obstructive pulmonary disease
Peter Siu Pan Cho (London, United Kingdom), Hannah V Fletcher, Irem S Patel, Caroline J Jolley, Richard D Turner, Surinder S Birring
Peripheral muscle strength and COPD assessment test
Guilherme Bianzeno (Botucatu (SP), Brazil), José William Zucchi, Luiz Henrique Soares Machado, Amanda Lais Peralta, Laura Miranda De Oliveira Caram, Suzana Erico Tanni, Irma Godoy, Renata Ferrari

COPD and Swallowing disorders: Clinical assessment by Fiberoptic Evaluation of Swallowing (FEES)
ANDRES FELIPE VILLABONA-RUEDA (Baltimore, United States of America), Gloria Marcela Estévez Ramírez, Heliberto Paez Quientro, Tania Mendoza Herrera, Olga Rosa Castillo Mier, Xiomara Alarcon Serrano, Jose Fernando Rojas Rodriguez, Jaime Leonardo Chacon Manosalva, Maria Angelica Chacon Manosalva, Javier Enrique Fajardo Rivero

Signs of mental confusion and asterixis in hypercapnic COPD patients are attributable to elevated levels of ammonia
Stylianos Michaelides (Athens, Greece), Avgerinos-Romanos Michailidis, George Bablekos, Vlasios Skopas, Nikolaos Trakas, Nikolaos Koulouris

Relationship between the integrity of the cell membrane and hypoxia with hypercapnia in patients with hospitalized cardiopulmonary failure

Postoperative Pulmonary Complications in Bronchial Asthma/Chronic Obstructive Pulmonary Disease/Non-Pulmonary Disease Patients
Mahsa Mirdamadi (Tehran, Islamic Republic of Iran), Hosnollah Sadeghi, Ali Safaei, Mahmood Salesi

Correlation of spirometric value to 2D ECHO parameters for diagnosis of pulmonary hypertension in COPD
Abhisheka Kumar (Patna (Bihar), India), Deependre Rai

Impact of chronic obstructive pulmonary disease and heart failure on the phase angle in hospitalized subjects

Late Breaking Abstract - Plasma endocan is over-expressed in AECOPD patients: association with lung function decline and apoptosis
Luqi Dai (Chengdu, China), Liu Lian, Tao Wang, Dan Xu, Fuqiang Wen

Late Breaking Abstract - Long-term variability of blood eosinophils in COPD patients by GOLD 2017 staging, and gender bias
Joan B Soriano (Madrid, Spain), Maria T Pastor-Sanz, Elena García-Castillo, Emma Vázquez, Rosa Mar Gómez-Punter, Tamara Alonso, Julio Ancochea

The role of serum IL6 in stable COPD patients
Dora Marinova (Sofia, Bulgaria), Aleksandar Lišov, Janina Slavova

Blood Eosinophils Correlate With Severe Exacerbations in Frequent Exacerbator Phenotype of COPD
Vipul Jain (Fresno, United States of America), Vipul Jain, Leena Jalota, Vinisha Prajapat, Dennis Allison, Ratnali Jain, Joseph Vempilly

The impact of high eosinophil count on hospitalizations in COPD patients
Burcu Arpinar Yigitbas (Istanbul, Turkey), Elif Yelda Nisarsarioglu, Esra Yazar, Lutfiye Kilic, Celal Satici, Seyma Ozden

Changes in urinary biomarkers between stable state and exacerbation of COPD
Ahmed Javid Yousuf (Oxford (Oxfordshire), United Kingdom), Gita Parekh, Annette Yduvoix, Sarah Parker, Jo Finch, Sarah Glover, Sarah Rees, Vijay Mistry, Liesl Carr, Paul Davis, Keir Lewis, Christopher Brightling

The relationship between serum levels of Surfactant protein D in COPD exacerbation severity and mortality
Fatma Esra Günüaydır (Istanbul, Turkey), Nurdan Kalkan, Gülşah Günlioğlu, Esma Nur Aktepe, Barış Demirkol, Thierry Sibomana, Sedat Altun

VEGF serum levels in COPD patients without pulmonary hypertension – a case control study
Ana Florica Chis (Cluj-Napoca (Cluj), Romania), Olga Soritau, Andreea Catana, Monica Pop
<table>
<thead>
<tr>
<th>PA4072</th>
<th>Blood MCP-1 levels are increased in chronic obstructive pulmonary disease with prevalent emphysema</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Antonino Di Stefano (Veruno (NO), Italy), Teresa Coccini, Elisa Roda, Cinzia Signorini, Bruno Balbi, Giuseppe Brunetti, Piero Ceriana</td>
</tr>
</tbody>
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<tr>
<th>PA4073</th>
<th>Increased serum endotoxin levels as biomarker in acute exacerbations of COPD.</th>
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<tr>
<td></td>
<td>Christian Herr (Homburg (Saar), Germany), Eva Papatsanis, Johanna Classen, Julia Demandt, Marilena Patalong-Dahm, Teresa Stegmaier, Christoph Beißwenger, Giovanna Vella, Felix Ritzmann, Franziska Trudzinski, Thai Dinh, Philipp Lepper, Sebastian Fähndrich, Robert Bals</td>
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<tr>
<th>PA4074</th>
<th>1 year RV/TLC change as a predictor of long term decline of FEV1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In Ae Kim (Seoul, Republic of Korea), Yong Bum Park, Chin Kook Rhee, Young Il Hwang, Kwang Ha Yoo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4075</th>
<th>Exercise-induced desaturation and the functional status of patients with COPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Irina Ponomareva (Ryazan, Russian Federation), Alexey Kosyakov, Vladimir Abrosimov</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4076</th>
<th>Association of serum uric acid levels and outcomes of patients with Chronic Obstructive Pulmonary Disease (COPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>John Ray Galamay (Quezon City, Philippines), Teresita De Guia, Ma. Encarnita Limpin</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PA4077</th>
<th>Association of Hypoxia-Inducible Factor (HIF)-1a and Asymmetric Dimethylarginine(ADMA) in patients with COPD and controls.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kriti Upadhyay (New Delhi (Delhi), India), Ashraf Ali, Bijay Pattnaik, Anurag Agarwal, Randeep Guleria</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4078</th>
<th>Differences in expression profiles of serum microRNAs in women with mild to moderate COPD by biomass smoke exposure and tobacco smoke.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yadira Velasco (CDMX, Mexico), Julia Pérez, Martha Montaño, Oliver Pérez, Ivette Buendia, Ramcés Falfán, Victor Ruiz, Carlos Ramos</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4079</th>
<th>Expression and function of IL-20 cytokines and their receptors on the airway epithelium during Chronic Obstructive Pulmonary Disease (COPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Olivia BARADA (LILLE, France), Gwenola Kervoaze, Christelle Coraux, Myriam Polette, Gaetan Deslée, Muriel Pichavant, Philippe Gosset</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4080</th>
<th>IL-18 and IL-10 in patients with occupational COPD, depending on the presence or absence of hypertension</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Anastasiya Melenevych (Kharkov, Ukraine)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4081</th>
<th>Relationship of HRCT-diagnosed emphysema and clinical features in COPD.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vanya Kostadinova (Varna, Bulgaria), Yordan Radkov, Temenuga Stoeva, Darina Miteva</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4082</th>
<th>Interdisciplinary Pilot Project on Emphysema Quantification and Bronchial Wall Thickness assessment in COPD patients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Andrea Vukić Dugac (Zagreb, Croatia), Blanka Cuk, Kristina Krpina, Ante Marušić, Ivona Markelić, Sanja Popović Grle</td>
</tr>
</tbody>
</table>

**TP-08 Session 429 12:50 - 14:40**

**Thematic poster: COPD exacerbations and bronchiectasis**

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections

**Method(s):** Respiratory intensive care, Cell and molecular biology, Imaging, Physiology, Public health, General respiratory patient care, Epidemiology

**Chairs:** Melissa McDonnell (Oranmore (Co Galway), Ireland), Yelda Varol (Izmir, Turkey), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Miriam Barrecheguren Fernandez (Barcelona, Spain)

<table>
<thead>
<tr>
<th>PA4083</th>
<th>Late Breaking Abstract - Comparative real world effectiveness of triple therapy versus dual bronchodilation in frequently exacerbating patients with COPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jaco Voorham (Singapore, Singapore), Marján Kerkhof, Mario Scuri, Stefano Vezzoli, Ilaria Valente, Alberto Papi, Claus Vogelmeier, David Singh, Leonardo Fabbri, Janwillem Kocks, David Price</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4084</th>
<th>Late Breaking Abstract - Effect of obesity on progression of smokers without airflow obstruction to COPD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mehrdad Arjomandi (San Francisco, United States of America), Siyang Zeng, Chiu-Yu Huang, Paul Blanc</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4085</th>
<th>Late Breaking Abstract - The association of osteoporosis with mortality and symptom burden in a COPD cohort. The HUNT Study, Norway.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sigrid Anna Vikjord (Levanger, Norway), Ben Michael Brumpton, Xiao-Mei Mai, Laxmi Bhatta, Arnulf Langhammer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PA4086</th>
<th>Late Breaking Abstract - Does medication exacerbate comorbidities in chronic obstructive pulmonary disease? A prevalence study of neuroleptic intake</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vincent Cabibel (Montpellier, France), Nelly Héraud, Alain Varray, François Alexandre</td>
</tr>
</tbody>
</table>
PA4087 Late Breaking Abstract - Characteristics and treatment of patients with comorbid COPD and heart failure
David Price (Singapore, Singapore), Ronan Ryan, Robert Fogel, Hui Cao, Janwillem W.H. Kocks, Piergiuseppe Agostoni, Chin Kook Rhee, John R. Hurst, Rupert Jones, Konstantinos Kostikas

PA4088 Late Breaking Abstract - Safety and immunogenicity of non-typeable H. influenzae (NTHi) and M. catarrhalis (Mcat) adjuvanted vaccines in adults
Marco Testa (Siena, Italy), Pierre Van Damme, Geert Leroux-Roels, Corinne Vandermeulen, Iris De Ryck, Annaelisa Tasciotti, Marie Dozot, Luca Moraschini, Ashwani Kumar Arora

PA4089 Late Breaking Abstract - Safety and immunogenicity of non-typeable H. influenzae (NTHi) adjuvanted vaccine in older adults with chronic obstructive pulmonary disease (COPD)
Marco Testa (Siena, Italy), Tom Wilkinson, Stuart Schembri, Christopher Brightling, Nawar Diar Bakerly, William Macnee, Lars Rombo, Jan Hedlin, Martin Allen, Paul Walker, Iris De Ryck, Annaelisa Tasciotti, Daniela Casula, Ashwani Kumar Arora

PA4090 Late Breaking Abstract - Overlap of SGRQ and CAT-defined chronic mucus hypersecretion in the SPIROMICS cohort: implications for digital health
Hana Müllerová (Uxbridge (Middlesex), United Kingdom), Marni Stott-Miller, Bruce E Miller, Aili L Lazaar, Maggie Tabberer, Céline El Baou, Tom Keeley, Fernando J Martinez, Meilan K Han, Ruth Tal-Singer

PA4091 The Aetiology of Acute Exacerbations in Chronic Obstructive Pulmonary Disease (AECOPD): A Systematic Literature Review (SLR)
Hana Müllerová (Uxbridge (Middlesex), United Kingdom), Jessica Willson, Eveline Bunge, Katie Pascoe, Denis King

PA4092 Bronchiectasis in exacerbation of COPD: differences between genders

PA4093 Chronic obstructive pulmonary disease (COPD) patients with bronchiectasis: clinical features?
Marwa Kacem (tunis, Tunisia), Iman Bachouche, Fatma Cherniti, Nidhal Belloumi, Yassmine Hididène, Soraya Fenniche

PA4094 Clinical and exacerbation characteristics may predict treatment response in acute exacerbations of COPD
Breda Cushen (Dublin 11, Ireland), Garrett Greene, Elaine Mac Hale, Lorraine Tompkins, Imran Sulaiman, Fiona Boland, Emer Kelly, Richard W Costello

PA4095 Bronchiectasis in COPD: increased susceptibility of the Airways to aggressive agents?
Monica Corso Pereira (Campinas (SP), Brazil), Silvia Ms Silva Doria, Marcos Melo Moreira, Paulo Roberto Tonidandel, Eduardo Melo De Capitani, Ilma A Paschoal

PA4096 Pneumonia in Chronic Obstructive Pulmonary Disease (COPD) - is it a separate entity?
Abdi Ali (Wrexham (Clwyd), United Kingdom), Javed Ibrahim, Junaid Ali, Muneer Radzali, Jamal Ahmed, Harmesh Moudgil, Emma Crawford, Annabel Makan, Koottalai Srinivasan, Nawaid Ahmad

PA4097 Definition and characterization of an inflammatory phenotype in patients with COPD - results from the COSYCONET study
Frederik Seiler (Saarbrücken, Germany), Franziska C. Trudzinski, Sebastian Fähndrich, Henrik Watz, Rudolf A. Jörres, Armin Koch, Tobias Welte, Rudolf Bals

PA4098 Predictors of lung function decline: a retrospective study in COPD patients
Francesco Spelta (Verona (VR), Italy), Michela Pizzini, Lucia Cazzolatti, Valentina Rigoni, Francesco Zamboni, Pietro Ferrari, Giorgia Zambon, Marcello Ferrari

PA4099 Pathogenic bacteria for exacerbation of Chronic Obstructive Pulmonary Disease
Yan Chen (Richmond (VIC), Australia), Lin Chen, Xue He, Tiao Li, Lijuan Luo

PA4100 Cytokines profile of blood and sputum in COPD exacerbation
Sophia V. Nesterovich (Tomsk, Russian Federation), Ekaterina B. Bukreeva

TP-09 Session 430 12:50 - 14:40
Thematic poster: Sarcoidosis, interstitial lung diseases and various clinical problems

Disease(s): Pulmonary vascular diseases, Airway diseases, Respiratory critical care, Respiratory infections, Interstitial lung diseases, Thoracic oncology, Respiratory infections

Method(s): Endoscopy and interventional pulmonology, Respiratory intensive care, Surgery, Cell and molecular biology, General respiratory patient care, Imaging

Chairs: Maurizio Marvisi (Cremona (CR), Italy), Philippe Camus (Dijon, France), Sara Ramponi (Cingia de’ Botti (CR), Italy), Veronica Affieri (Parma (PR), Italy)
<table>
<thead>
<tr>
<th>Abstract Code</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4101</td>
<td>Late Breaking Abstract - The effectiveness of respiratory hot clinic service in two North West centers, UK</td>
<td>Aziza Abdul-Rashid, Yirong Lum, Sunitha Bethireddy, Thomas Lightburn, Ran Wang, Sharada Gadur, Syed Mehdi</td>
</tr>
<tr>
<td>PA4102</td>
<td>Evaluation of the relationship between personality characteristics with emotional intelligence in sarcoidosis patients</td>
<td>Mitra Safa (TEHRAN, Islamic Republic of Iran), Arda Kiani, Fatemeh Ghassem Boroujerdi, Bamdad Mirab Zadeh Ardekani</td>
</tr>
<tr>
<td>PA4103</td>
<td>Mycophenolate Mofetil as a corticosteroid- sparing agent in patients with sarcoidosis.</td>
<td>Anastasia Papaporfiryiou (Mandra, Greece), Eleni Stagaki, Effrosyni D. Manali, Georgia Papadaki, Andriana I. Papaoanou, Joanna Korbilla, Alina Giouleka, Maria Kallieri, Lykourgos Kolilekas, Christina Triantafyllidou, Spyridon Papiiris</td>
</tr>
<tr>
<td>PA4104</td>
<td>Thoracic sarcoidosis with heart damage</td>
<td>Andrey Ilin (Blagoveshchensk (Amur Oblast), Russian Federation), Anatoliy Lenshin, Juliy Perelman</td>
</tr>
<tr>
<td>PA4105</td>
<td>Alpha-1 Antitrypsin Deficiency at Pulmonology appointment in a central hospital</td>
<td>Marta Sofia Nobre Pereira (S. Brás de Alportel, Portugal), Claudia Guerreiro, Djamila Neves, Vanda Areias, Karl Cunha, Helena Ramos, Bruno Santos, Jose Contreras, Isabel Ruivo, Fernanda Nascimento, Ulisses Brito</td>
</tr>
<tr>
<td>PA4106</td>
<td>Preparatory grief, anxiety and depression in IPF patients and their caregivers: A fuller picture of the psychological impact of IPF.</td>
<td>Debra Reynolds-Sandford (Adelaide (SA), Australia), Hubertus Jersmann, Paul Reynolds, Bernhard Baune</td>
</tr>
<tr>
<td>PA4107</td>
<td>Antimicrobial peptides in bronchoalveolar lavage in patients with chronic lung diseases</td>
<td>Kristel Svalland Knudsen (Bergen, Norway), Sverre Gronseth, Eli Nordeide, Abraham C. Van Der Linden, Pieter S Hiemstra, Tomas Mikal Lind Eagan</td>
</tr>
<tr>
<td>PA4108</td>
<td>Tracking crackles of Interstitial Lung Disease during sleep.</td>
<td>Gary Baker (Armidale (NSW), Australia), Mark Norman, Pierre Lonchampt, Colin Sullivan</td>
</tr>
<tr>
<td>PA4109</td>
<td>Follow up of high-risk individuals with lung nodules identified on a CT-screening programme</td>
<td>Marie Stolbrink (Liverpool (Merseyside), United Kingdom), Bryony Sedgwick, Rachel Penfold, Laura Root, Gareth Jones</td>
</tr>
<tr>
<td>PA4110</td>
<td>Mutation analysis of Hereditary Hemorrhagic Telangiectasia disease among eastern Spanish population</td>
<td>Gustavo Juan Samper (Valencia, Spain), Javier Milara Payá, Mercedes Ramon Capilla, Estrella Fernandez Fabrellas, Cristina Sabater Abad, Raquel Rodriguez Lopez, Goitzane Marcaida Benito, Carola Guzman Lujan</td>
</tr>
<tr>
<td>PA4111</td>
<td>Evaluation of Pulmonary Complication in Patient with Valvular Heart Surgery: Clinical and Laboratory Significances</td>
<td>Hasan Allah Sadeghi (Tehran, Islamic Republic of Iran), Behshid Ghadroost</td>
</tr>
<tr>
<td>PA4112</td>
<td>Validity of Risk Calculator in predicting post operative respiratory failure in patients undergoing elective/emergency surgery at a tertiary care hospital in South India</td>
<td>Surendran Aneshkumar (Kollam (Kerala), India), L Sundararajan</td>
</tr>
<tr>
<td>PA4113</td>
<td>Black pleural effusion as the presenting feature of lung cancer.</td>
<td>Tiago Alfaro (Coimbra, Portugal), V Fernandes, C Cruz, C R Cordeiro</td>
</tr>
<tr>
<td>PA4114</td>
<td>Care in the Last Days of Life and Carer Perspectives</td>
<td>Ahmed Haque (Gillingham, United Kingdom), Lisa Vincent-Smith, Larisa Crisan, Andradamaria Bianu</td>
</tr>
<tr>
<td>PA4115</td>
<td>Creating a successful medical team using Whatsapp(TM)</td>
<td>Radu Adrian Crisan-Dabija (Iasi, Romania), Traian Mihaescu</td>
</tr>
<tr>
<td>PA4116</td>
<td>Cavitary nodules in rheumatoid arthritis patients and their prognosis</td>
<td>Derya Kocakaya (Istanbul, Turkey), Ayşen Aksoy, Yasemin Yağcı, Nevsun Inanç, Emel Eyüksel, Sait Karakurt</td>
</tr>
<tr>
<td>PA4117</td>
<td>Respiratory manifestations in patients with systemic vasculitis with renal involvement in a tertiary hospital</td>
<td>Stamatoula Tsikrika (Athens, Greece), Vasiliki Papanikolau, Christalleni Christodoulidou, Stamatoula Gardikioti, Christina Vourlakou, Paraskevi Katsaounou, Spiros Zakynthinos, Theofanis Apostolou</td>
</tr>
<tr>
<td>PA4118</td>
<td>Primary Pulmonary Amyloidosis</td>
<td>Pelin Korkmaz (İstanbul Zeytinburnu, Turkey), Murat Kiyik, Aysin Durmaz, Naciye Mutlu, Huseyin Cem Tigin, Halide Nur Ür Er, Kemal Karapinar</td>
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<td>Session</td>
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<td>Authors</td>
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<tr>
<td>PA4120</td>
<td>RELATIONSHIP BETWEEN SIX-MINUTE WALK DISTANCE, PULMONARY FUNCTIONS AND PATIENT CENTERED OUTCOMES IN PATIENTS WITH PULMONARY HYPERTENSION</td>
<td>Pinar Odevoglu (Istanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Gulfer Okumus</td>
</tr>
<tr>
<td>PA4121</td>
<td>Impact of Community Respiratory Team on individual hospital admissions and region based improvements.</td>
<td>Jennifer Macfie (Glasgow (Glasgow), United Kingdom), Katy Levin, Marianne Milligan, Deborah Anderson, Hannah Bayes, David Anderson</td>
</tr>
<tr>
<td>PA4122</td>
<td>2 days at the sea-side! Effects on anxiety and depression scores, Health Locus of Control (HLOC) and Patient’s Global Impression of Change (PGIC) in COPD patients.</td>
<td>Irene Salamun (Liège, Belgium), Delphine Nguyen Dang, Hélène Vancauwenberge, Audrey Vanhauwenhuyse, Hervé Debatty, Jean-Louis Corhay, Renaud Louis</td>
</tr>
<tr>
<td>PA4123</td>
<td>Physical activity evolution measured by actimeter in COPD patients after a pulmonary rehabilitation.</td>
<td>Trija Vaidya (NANTES, France), Camille Badatcheff, Agnes Bellocq, Frédéric Costes, Hakima Ouksel, Claire De Bisschop, Arnaud Chambellan</td>
</tr>
<tr>
<td>PA4124</td>
<td>Association between muscle wasting and muscle strength in patients who developed severe sepsis and septic shock</td>
<td>Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Rodrigo Borges, Francisco Soriano</td>
</tr>
<tr>
<td>PA4125</td>
<td>Low FFMI in COPD patients undergoing pulmonary rehabilitation</td>
<td>Tomaz Hafner (Kranj, Slovenia), Irena Sarc, Anja Groselj, Ziva Zdolsek, Barbara Zupanc, Tatjana Kosten</td>
</tr>
<tr>
<td>PA4126</td>
<td>Prevalence of sarcopenia in Brazilian hospitalized and community-dwelling elderly</td>
<td>Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Rodrigo Borges, Daniel Correa, Mariucha Borges, Lourdes Sampaio</td>
</tr>
<tr>
<td>PA4127</td>
<td>Inspiratory muscle training with SpiroTiger-MEDICAL® in patients with diaphragmatic dysfunction</td>
<td>Claudia Crimi (Catania (CT), Italy), Raffaele Campisi, Teresa Augelletti, Enrico Heffler, Antonio Ragusa, Nunzio Crimi</td>
</tr>
<tr>
<td>PA4128</td>
<td>Understanding utilisation of Pulmonary Rehabilitation in Primary care: an online survey</td>
<td>Jonathan P Fuld (Cambridge (Cambridgeshire), United Kingdom), Frances Early, Hena Haqué, Patricia Wilson, Ian Wellwood, John Benson, Christi Deaton</td>
</tr>
<tr>
<td>PA4129</td>
<td>Pedometer intervention to improve daily physical activity and QOL in patients with stable COPD including those with ACO.</td>
<td>Yuko Sano (Tokyo, Japan), Rokuro Matsuoka, Yoko Sato, Shinobu Kimura, Syoji Mihara, Hajime Kurosawa</td>
</tr>
<tr>
<td>PA4130</td>
<td>Evolving outcomes of tracheostomised patients requiring prolonged mechanical ventilation before and after implementation of a respiratory high-dependency unit in a tertiary care hospital.</td>
<td>Bertrand Herer (Briis Sous Forges, France), Catherine Karanfilovic, Henri Maas, Hélène Jaillet, Christian Darné, Françoise Haniez</td>
</tr>
<tr>
<td>PA4131</td>
<td>Comparative assessment of the qol specific parameters in children with bronchial asthma with standard pharmacotherapy, and in additional course of physiotherapy in the pool</td>
<td>Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Liliya Ilyinichna Mazur , Vasilij Fedorovich Pjatin , Igor Ivanovich Berezin , Egor Dmitrievich Mokin, Artem Konstantinovich Sergeev</td>
</tr>
<tr>
<td>PA4132</td>
<td>Eosinophilic ratio in COPD and outcomes in pulmonary rehabilitation</td>
<td>Mateus Schneider (Porto Alegre, Brazil), Daniela Gravina, Gabriel Siebiger, Lucas Carlesso, Juliessa Florian, Scheila Machado, Monica Oliveira, Paulo Teixeira</td>
</tr>
<tr>
<td>PA4133</td>
<td>Effectiveness of a four-week rehabilitation program on changes in heart rate variability and physical performance in chronic obstructive pulmonary disease.</td>
<td>Janos Tamas Varga (Budapest, Hungary), Botond Szucs, Mate Petrekanits</td>
</tr>
<tr>
<td>PA4134</td>
<td>Post-exercise training serum from COPD patients induces atrophy of healthy human myotubes in vitro</td>
<td>Matthias Catteau (Montpellier, France), Farès Gouzi, Léo Blervaque, Emilie Passerieux, Marine Blaquière, François Bughin, Nelly Héraud, Jacques Mercier, Maurice Hayot, Pascal Pomiès</td>
</tr>
</tbody>
</table>
No single system of Pulmonary Rehabilitation delivers for all Patients with COPD?
Michael Apps (Brentwood, United Kingdom), Kelly-Ann Keeling, Carole Goodrich, Honoria Olympio-Anang, Irene Young, Anna Kopacz, Kiran Sanger, Jan Minter, Tracy Gisby

Oxygen wristbands, a visual aid to aid patient safety
Saagar Patel (Manchester (Greater Manchester), United Kingdom), Jaclyn Proctor, Safia Lakehal, Saif Haddad, Jenfier Marlow, Alex Jackson, Sonja Walker, Mithun Murthy

Challenges faced by Pulmonologists in India in management of severe obstructive airways diseases (SOADs).
Sushmeeta Chhowala (Mumbai (Maharashtra), India), Komalkirti Apte, Sushma Jadhav, Jaideep Gogtay, Sundeep Salvi

Influence of hypercapnia on the effect of non invasive ventilation during exercise in COPD patients
Pierre Labelx (Saint-Etienne, France), Mathieu Berger, Isabelle Court Fortune, Daniella Mutti, Stephanie Ballereau-Chomette, Frederic Costes

The effect of inspiratory muscle training on lung hyperinflation in COPD patients.
Natalia Meshcherykova (Moscow, Russian Federation), Andrey Belevsky, Alexander Charniak

The efficiency of pulmonary re-rehabilitation
Ebru Karaçay Yeşiloğlu (Ankara, Turkey), İpek Candemir, Pınar Ergün, Dicle Kaymaz, Neşe Demir, Fatma Şengül

The effect of community lung rehabilitation guidance on the quality of life of patients with COPD.
Fangbo Zhao (Changchun (Jilin), China), Shuang Wang, Hongjing Lin

Severe legs symptoms at the end of a 6-min walk test: evidence of low physical activity in COPD?
Clara Martin Ontiyuelo (Sant Cugat del Vallès (Barcelona), Spain), Anna Rodó-Pin, Antonio Sancho Muñoz, Concepción Ballano Castro, Laura Gutiérrez Marín, Lluis Molina Ferragut, Joaquim Gea Guiral, Diego Agustín Rodríguez Chiaradia

Obstructive sleep apnea syndrome in cardiac rehabilitation patients
David HUPIN (Saint-Etienne, France), Vincent Pichot, Mathieu Berger, Jérémy Raffin, Pierre Labeix, Delphine Maudoux, Jean-Claude Barthélémé, Frédéric Roche

Objectively measured physical activity and sedentary behaviour of 287 individuals with COPD before starting pulmonary rehabilitation
Wolfgang Geidl (Erlangen, Germany), Johannes Carl, Samuel Cassar, Nicola Lehbert, Michael Wittmann, Rupert Wagner, Konrad Schultz, Klaus Pfeifer

Outcomes post hip fracture for patients with COPD
Lewis Buss (Nottingham, United Kingdom), Tricia McKeever, Jessica Nightingale, Ralph Akyea, Benjamin Ollivere, Iain Moppett, Charlotte Bolton

Applying the ESPEN definition of Malnutrition in patients with stable Chronic Pulmonary Obstructive Disease: associations with Mortality and Healthcare use at 2 years
Ester Marco Navarro (Barcelona, Spain), Monique Messaggi-Sartor, Vanessa Dávalos-Yerovi, Anna Guillén-Solà, Esther Barreiro, Diego A. Rodriguez, Eva M. Pascual, Dolores Sánchez-Rodríguez

Impact of initiation of a home oxygen service on oxygen cylinder refills and use of urgent orders
Claire Davey (London, United Kingdom), Emma Barter, Jane Simpson

Effect of Pulmonary Rehabilitation on Functional Exercise Capacity and Hypoxemia in Patients with Interstitial Lung Diseases: a retrospective study
Mauro Maniscalco (Napoli (NA), Italy), Salvatore Fuschillo, Alberto De Felice, Carlo Gaudiosi, Michele Martucci

Anatomical and Functional Repercussions of Sequelae of Pulmonary Tuberculosis: Cross-Sectional Observational Study
Thúlio Marquez Cunha (Uberlandia (MG), Brazil), Michelle Godoy Canazza Damian, Debora Scheucher, Nicholas Godoy Canazza Damian, Maria Aparecida Gonçalves Gomes, Vinicius Pazume De Oliveira, Robinson Sabino Da Silva, Luiz Ricardo Goulart Filho
Impact of a long-term respiratory rehabilitation program on patients with COPD.
Pablo Mariscal Aguilar (Madrid, Spain), Jose Andres Tenes Mayen, Yolanda Martinez Abad, Raul Galera, Francisco Garcia Rio, Rodolfo Alvarez Sala-Walther, Mercedes Marin, Carlos Carpio

The effects of pulmonary rehabilitation in patients with Combined Pulmonary Fibrosis and Emphysema (CPFE)
Andriana Papaioannou (Vrilissia (Athens), Greece), Effrosyni Manali, Panagiotis Lyberopoulos, Anastasia Papaporfyrion, Maria Kalliri, Sotiris Gyftopoulos, Dimitrios Konstantonis, Eleni Stagaki, Georgios Papadaki, Konstantinos Kostikas, Roula Spetsioti, Ioannis Vogiatzis, Argyro Mazioti, Stelios Loukides, Spyros Papis

Free diving-based breathing techniques in COPD Rehabilitation
Morton Borg (Brabrand, Denmark), Tue Thastrup, Kurt Larsen, Ole Hilberg, Anders Løkke

Is integrated pulmonary and heart failure rehabilitation effective and safe in primary care?
Alex Woodward (Leicester (Leicestershire), United Kingdom), Sudip Ghosh, Gillain Doe, Dave Clarke, Noel O’Kelly

Relationship between functional capacity, dynamic and static muscle function assessments in people with Chronic Obstructive Pulmonary Disease (COPD)
Sarah Géphine (Québec (QC), Canada), Erik Frykholm, André Nyberg, Gillain Doé, Dave Clarke, Noel O’Kelly

What are the determinants in Patient Activation Scores in COPD?
Freddy Frost (Liverpool, United Kingdom), Sarah Sibley, Alison Healey, Sam Pilsworth, Dennis Wat

Augmented reality glasses as a new tele-rehabilitation tool for home use: patients’ perception and expectations
Jose Cerdán de las Heras (Aarhus C, Denmark), Mikko Tulppo, Antti Kiviniemi, Ole Hilberg, Anders Lokke, Simo Ekholm, Elisabeth Bendstrup

Effectiveness of pulmonary rehabilitation initiated after exacerbation of Chronic Obstructive Pulmonary Disease
Ayşe Arzu Yorgancıoğlu (Izmir, Turkey), Tuğba Göktalay, Lale Cerrahoğlu, Yavuz Havluçu, Necati Balci

Association of caregiver burden and depression in caregivers of patients with chronic respiratory failure secondary to advanced and end stage lung disease
Sehnaz Olgu Yildizeli (Istanbul, Turkey), Huseyin Arikan, Umut Kasapoglu, Derya Kocakaya, Emel Eryuksel, Berrin Ceyhan, Sait Karakurt

Patients profile and pulmonary rehabilitation in interstitial lung disease
Genevieve Courteau Godmaire (Montreal, Canada), Mélina Lalande-Gauthier, Bruno-Pierre Dubé, Julie Morisset, Claude Poirier

Long-term results of bronchoscopic cryotherapy for post-intubation tracheal stenosis
Evangelos Balis (Zografou (Athens), Greece), Konstantinos Kotsifas, Nikolaos Tatsis, Angeliki Papanikolaou, Stavroula Boulia, Giolina Chrysou, George Boulbasakos

Comparison of silicon and metallic bifurcated stents in patients with malignant airway lesions
Cengiz Özdemir (Malatya, Turkey), Sinem Nedime Söküçü, Levent Dalar

First Experience with Endobronchial Microwave Ablation (eMWA) of Malignant Airway Stenoses
Marco Trigiani (Ghedi (BS), Italy), Margherita Innocenti, Sofia Romani, Michela Bezzi

Peak Expiratory Flow decrease signals relapse in patients with post intubation tracheal stenosis.
Vassiliki Kossivaki (Athens, Greece), Philip Emmanouil, Vlasios Vitsas, Nikolaos Koufos, Ioannis Athanasopoulos, Nikolaos Koulouris, Grigorios Stratakos

Idiopatic tracheal stenosis, first experience with conservative treatment at high altitude, La Paz- Bolivia
Omar Hidalgo MD, interventional pulmonologist. Rodrigo Pacheco MD, Thoracic surgeon Rita Villalobos MD, Anatomic pathologist.
Omar Hidalgo Martinez (La Paz, Bolivia), Rodrigo Pacheco, Rita Villalobos

Thematic poster: Use of stents for tracheal stenosis

Disease(s): Airway diseases, Pulmonary vascular diseases, Thoracic oncology, Respiratory infections
Method(s): General respiratory patient care, Respiratory intensive care, Imaging, Surgery, Endoscopy and interventional pulmonology

Chairs: Johannes M.A. Daniels (Amsterdam, Netherlands), Jean-Michel Vergnon (Saint-Etienne, France), Kaid Darwiche (Essen, Germany), Charles-Hugo Marquette (Nice, France)
The predictors of liberation form mechanical ventilation in patients with acute respiratory failure due to malignant central airway obstruction after metallic airway stenting by flexible bronchoscopy
Wen-Chien Cheng (Taichung, Taiwan), Chih-Yen Tu, Biing-Ru Wu, Chih-Yu Chen, Wei-Chun Chen, Wei-Chih Liao, Chia-Hung Chen

Bronchoscopic treatment of postintubation tracheal stenosis – A 20 year experience
Cláudia Andreia Silva Freitas (Villa Nova de Gaia, Portugal), Filipa Soares Pires, Adélia Amorim, Maria Sucena, António Morais, Gabriela Fernandes, Adriana Magalhães

Biodegradable polydioxanone stent in the treatment of post-intubation and post-tracheotomy stenosis.
Ludek Stehlik (Praha 4, Czech Republic), Vladislav Htych, Pavel Horazdovsky, Martina Vasakova

bronchoscopic cryo-ablation of endobronchial lung cancer: predictors of recanalization.
Ahmed Shawky Ebrahim (Tanta, Egypt)

A new metallic stent to treat benign lobar bronchus stenosis
Kaid Darwiche (Essen, Germany), Ruediger Karpf-Wissel, Christian Taube, Faustina Funke, Jane Winantrea

Interventional bronchoscopy for malignant central airway obstruction: a 7 years cohort study in a french university hospital
FLORENT THEVENET (DIJON, France), Nicolas Favrot, Ayoub Zouak, Marjolaine Georges, Pascal Foucher, Philippe Camus, Philippe Bonniaud

Bronchoscopic therapy of tracheal stenosis: comparative study of two periods.
Vítězslav Kolek (Olomouc, Czech Republic), Edita Matlochová, Marek Szkorupa, Petr Jakubec, Stanislas Losse, Jaromír Zatloukal

Comparison of two groups of patients with benign airway stenosis from 1998 - 2003 and 2014 - 2016 years
Miloslav Marel (Praha 1, Czech Republic), Martin Trefny, Frantisek Petrlik, Dmitry Rakita, Jana Kotrobova, Libor Fila

Video case: Induction of a hydrothorax and retrograde methylene blue (MB) instillation to detect a bronchopleural fistula (BPF)
Øystein Olaiv Stubhaug (Gjøvik, Norway), Astrid Kravdal

Urgent airway management - experience of an interventional bronchoscopy team
Daniela Patricia Cunha Machado (Rio Tinto, Portugal), Catarina Marques, Filipa Lima, Daniel Coutinho, Sérgio Campainha, Ana Oliveira, Sofia Neves, José Almeida

Primary racemose hemangioma of a bronchial artery complicating bronchial artery to pulmonary artery fistula with giant bronchial artery aneurysms
Susumu Saito (Tokyo, Japan), Yasuhiro Kamii, Mina Goti, Yuri Baba, Naoko Takahashi, Syunsuke Inaki, Masamichi Takagi, Kazuoyoshi Kuwano

Endoscopic treatment of benign tracheal stenosis: brief and long term results 15 years experience of a single centre
Giacomo Cusumano (Catania (CT), Italy), Salvatore Bellofiore, Carmelo Riscica Lizzio, Rosalia Giarlotta, Alberto Terminella

Optimal timing of bronchoscopy in patients with hemoptysis
Michele Mondoni (Cremona (CR), Italy), Paolo Carlucci, Giuseppe Cipolla, Alessandro Fois, Stefano Gsparini, Silvia Marani, Sara Job, Fausta Alfano, Stefano Centanni, Giovanni Sogtii

Evaluation of ground-glass opacity cases diagnosed by bronchoscopy
Kohei Okafuji (Tokyo, Japan), Atsushi Kitamura, Ryosuke Imai, Hiroaki Kanemura, Kenji Ishii, Ryosuke Tsugitomi, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

Narrow Band Imaging: Advantages over white light bronchoscopy; Single center experience of 500 patients. 
Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke
PA4180  Immunocytological study of bronchioloalveolar lavage (BAL) in interstitial lung diseases (ILD) diagnosis
Marioara Simon (Cluj-Napoca (Cluj), Romania), Antonia Harangus, Ioan Simon, Spasoje Popevic, Dragana Jovanovic

PA4181  Late Breaking Abstract - Diagnostic yield of combined pulmonary cryobiopsies and electromagnetic navigation for peripheral pulmonary lesions
Olivier Taton (Brussels, Belgium), Olivier Taton

PA4182  Diagnostic Value of Imprint Cytology Evaluation in Bronchial Biopsies
Filipa Ramalho Fernandes (Alcântara, Portugal), Jorge Dionísio, Didina Coelho, Rüben Roque, Fernando Cunha, Ambrus Szantho, Duro Da Costa

PA4183  DEEP SEDATION: USE OF TARGET CONTROL INFUSION VERSUS ADMINISTRATION OF PROPOFOL IN CONTINUOUS PERFUSION DURING THE PERFORMANCE OF BRONCOSCOPIES
Blanca De Vega Sanchez (Valladolid, Spain), Ignacio Lobato Añárraga, Carlos Disdier Vicente, Ana Maria Andrés Porras, Stefania Soldarini, Claudia Iglesias Perez, Sofia Juanrita Largo, Maria Jose Chouriot Estaba, Ana Isabel Garcia Onieva, Santiago Antonio Juarros Martinez, Vicente Roig Figueroa

PA4184  Pulmonary re-biopsy in non–small-cell lung cancer (NSCLC) locally advanced or metastatic with EGFR-T790M resistance.
Elena Torricelli (Firenze (FI), Italy), Francesca Mazzoni, Valeria Pasini, Margherita Innocenti, Elena Bargagli, Lornezo Corbetta

PA4185  Identification of the pattern of hypoventilation by respiratory signal monitor during the induction of bronchoscopic sedation
Ting-Yu Lin (Taipei, Taiwan), Hau-Tieng Wu, Yu-Ting Lin, Han-Pin Kuo, Yu-Lun Lo

PA4186  Predictors for bronchoalveolar lavage (BAL) recovery rates derived from preprocedural quantified computed tomography (CT)
Frederik Trinkmann (Mannheim, Germany), Joshua Gawlitza, Holger Haubenreisser, Thomas Henzler, Martin Borggrefe, Stefan O. Schoenberg, Ibrahimakin, Julia D. Michels

PA4187  A randomized trial of navigational endosonographic ultrathin bronchoscopy versus thin bronchoscopy for the diagnosis of peripheral pulmonary lesions
Masahide Oki (Nagoya, Japan), Hideko Saka, Fumihiro Asano, Chiyoe Kitagawa, Yoshihito Kogure, Masahiko Ando

PA4188  Flexible bronchoscopy guided vocal cord biopsy under conscious sedation in special situations: An option to conventional biopsy techniques
Abhinav Singla (Essen, Germany), Sheelu Srinivas, Nivedha Giridharan, Lakshmipriya Srinivasan, Ravindra R. Mehta

PA4189  Transbronchial biopsy from the upper lobes is associated with increased risk of iatrogenic pneumothorax.
Michaela Perezová (Brno 39, Czech Republic), Vladimir Herout, Ivan Cundrle, Kristjan Brat

PA4190  Performance of a Novel Flexible 21G Peripheral TBNA Needle in Patients
Anna Szczechowiak (Redmond, United States of America), Roberto Casal, Alexander Chen, Antoine Delage, Stefano Gasparini, Robb Krukletis, Stephen Lam, Maren Schuhmann, Alain Tremblay, Nichole Tripician Tanner, Xavier Gonzalez

PA4191  Fiberoptic bronchoscopy in the upper airway
Maria Del Carmen Fernández Criado (Sevilla, Spain), Nuria Reyes Nuñez, Javier Gallego Borrego, Antonio Javier Cruz Medina, Cristina Carrasco Carrasco, Innaculada Alfageme Michavila

PA4192  LUNG TRANSTHORACIC ULTRASOUND (TUS) ELASTOGRAPHY: USEFULNESS IN THE STUDY OF PLEURO-PULMONARY IMAGES SUSPECTED OF MALIGNANCY
Desiree Lozano Vicente (Murcia, Spain), Javier Perez Pallares, Mercedes Guillamon, Maria Del Mar Valdivia, Gema Diaz, Francisco Javier Bravo, Pedro Garcia, Rocío Ibañez, Carlos Castillo, Pedro Menchón, Olga Meca, Jose Javier Martinez, Antonio Santa Cruz

PA4193  A prospective cohort study of super selective Bronchial Artery Embolization for hemoptysis: efficacy and the differences between embolic materials
Takashi Niwa (Ichinomiya, Japan), Shota Takehara, Kosuke Isomoto, Ryota Ohtoshi, Tae Iwasawa, Chihito Komaki, Takashi Ogura

PA4194  Yield of ultrasound guided Tru-Cut biopsy of peripheral thoracic masses by pulmonologists
Hidayat Ullah (Quetta, Pakistan), Fouzia Raza, Farooq Uighor, Shereen Khan

PA4195  Contrast-enhanced chest sonography in the control of transthoracic cutting type needle biopsies
Teodora Mihalova (Sofia, Bulgaria), Rossen Petkov, Dimitar Kostadinov, Yanina Slavova

PA4196  The diagnostic value of EBUS-TBNA for small mediastinal and hilar lymph nodes.
Upul Pathirana (Kurunegala, Sri Lanka), Damith Rodrigo, Jaymin Morjaria
Thematic poster: Primary care management of asthma

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Public health  General respiratory patient care

**Chairs:** Corina de Jong (Groningen, Netherlands), Janwillem W. H. Kocks (Groningen, Netherlands), Chris Newby (Leicester (Leicestershire), United Kingdom), Björn Stillberg (Uppsala, Sweden)

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**PA4197** The impact of different reference standards when estimating the accuracy of tests for diagnosing asthma
Luke Daines (Edinburgh (Edinburgh), United Kingdom), Hilary Pinnock, Steff Lewis, Aziz Sheikh, Antonius Schneider

**PA4198** Contribution of four pulmonary function tests to diagnosis in the primary care.
Maria Gabrovskova (Baal, Belgium), Henry-Alexandre Bourgeno, Vincent Ninane

**PA4199** Capabilities of electronic monitoring of auscultatory phenomena in patients with broncho-pulmonary pathology
Helena Binetskaya (Minsk, Belarus), Elena Lapteva, Irina Kovalenko, Anatoly Laptev, Elena Katibnikova, Mansur Elzbur, Alexey Karankevich, Vitali Dubinetski, Olga Kharevich

**PA4200** Establishing an asthma cutpoint for the ‘Control of allergic rhinitis and asthma test’ using an international survey
Corina de Jong (Groningen, Netherlands), Bertine Flokstra - De Blok, Hendrik Jan Baretta, Ellen Van Heijst, Thys Van Der Molen, Ioanna Tsiligianni, Janwillem Kocks

**PA4201** Wide variation in practices for measuring respiratory rate in children
Will Daw (Sheffield (South Yorkshire), United Kingdom), Ruth Kingshott, Heather Elphick

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**PA4202** The evaluation of asthma control by pulmonologists: Preliminary results
Mehmet Atilla Uysal (Istanbul, Turkey), Sacide Rana Isik, Dilsad Mungan, Elif Yelda Niksarioglu, Gulsem Elif Celik, Ali Fuat Kalyoncu, Carole Phan (phan.carole@gmail.com / INSERM UMR S 999, Université Paris-Sud, LE PLESSIS-ROBINSION), Scott Collum (scott.d.collum@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UThealth, Houston), Ning-Yuan Chen (ning-yuan.chen@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UThealth, Houston), Jonathan Davies (jdavies@texastechchildrens.org / Department of Pediatrics, Baylor College of Medicine, Houston), Ashrith Guha (gashrith@houstonmethodist.org / Debakey Heart & Vascular Center, Houston Methodist Hospital, Houston), Holger Eltzschig (holger.eltzschig@uth.tmc.edu / Department of Anaesthesiology, McGovern Medical School, UThealth, Houston), Ali Faat Kalyoncu, Carole Phan (phan.carole@gmail.com / INSERM UMR S 999, Université Paris-Sud, LE PLESSIS-ROBINSION), Scott Collum (scott.d.collum@uth.tmc.edu / Department of Biochemistry and Molecular Biology, McGovern Medical School, UThealth, Houston)

**PA4203** Towards a new inhaler instruction method based on based findings from the Inhaler Research Workgroup study
Esther I. Metting (Groningen, Netherlands), Paul Hagedoorn, Siebrig Schokker, Ellen Van Heijst, Titia Klemmeier, Marion Steurs, Rozemarijn Ettema, Kim Burger, Miguel Roman Rodriguez, Ioanna Tsiligianni, Thys Van Der Molen, Janwillem Kocks

**PA4204** Primary care prescribing habits for asthma in England 2007–15: are we following the guidelines?
John D Blakey (Liverpool (Merseyside), United Kingdom), Mariel G Slater, Alicia Gayle, Michael Baldwin

**PA4205** A review of asthma care in 50 general practices in Bedfordshire, United Kingdom.
Mark L. Levy (London, United Kingdom), Fiona Garnett, Adedayo Kuku, Inna Pertsovskaya, Eddie Mcknight, John Haughney

**PA4206** Management of children and young people (CYP) in London with asthma: a clinical audit report.
Mark L. Levy (London, United Kingdom), Angela Ward, Sara Nelson

**PA4207** Asthma treatment in real life
Esmé J. Baan (Rotterdam, Netherlands), Leila Karimi, Astrid Heeremans, Guy G. Brusselle, Miriam Sturkenboom, Hettie M. Janssens, Lies Lahousse, Katia M Verhamme

**PA4208** Step-Down of ICS in stable asthmatics in primary care: An observational study
Kevin Gruffydd-Jones (Wokingham (Berkshire), United Kingdom)

**PA4209** Eligibility for referral to specialist asthma clinics in England: a national database study
John D Blakey (Liverpool (Merseyside), United Kingdom), Alicia Gayle, Mariel G Slater, Michael Baldwin

**PA4210** Do Malaysian asthma patients use asthma action plan? A cross sectional study in Malaysian primary care setting.
Hani Salim (Selangor, Malaysia), Ping Yein Lee, Saizhina Shariff Ghazali, Ai Theng Cheong, Hilary Pinnock, Noor Harzana Harun, Sabiah Mohamed Isa, Junita Aries, Vengketeswara Rao Seetharaman, Salmah Nordin, Maimunah Mahmud, Yeow Siong Lee
PA4211 Exploring supported self-management practices of healthcare professionals for South Asian patients with asthma
Salina Ahmed (London, United Kingdom), Hilary Pinnock, Stephanie Taylor, Liz Steed

PA4212 Perceptions among primary care staff towards financial incentives to promote implementation of asthma self-management: a qualitative study in Northern Ireland
Tracy Jackson (Edinburgh (Edinburgh), United Kingdom), Marilyn Kendall, Liam Heaney, Mike Shields, Hilary Pinnock

PA4213 Paediatric asthma communication and education training for pharmacy students
Amanda Elaro (Sydney (NSW), Australia), Smita Shah, Bandana Sainti, Carol Armour, Sinthia Bosnic-Anticevich

PA4214 Critical implementation factors to lung-interventions in low-resource-settings – a FRESH AIR systematic review
Evelyn Brakema (Amsterdam, Netherlands), Debbie Vermond, Rianne Van Der Kleij, Asel Arykbaeva, Marise Kasteleyn, Mattijs Numans, Niels Chavannes

PA4215 The silent socioeconomic impact of COPD/asthma in Africa, Asia and Europe – a FRESH AIR study
Evelyn Brakema (Amsterdam, Netherlands), Aizhamal Tabyshova, Rianne Van Der Kleij, Talant Sooronbaev, Christos Lionis, Marilena Anastasakai, Pham Le An, Nguyen Than Luan, Bruce Kirenga, Simon Walusimbi, Maarten Postma, Niels Chavannes, Job Van Boven

PA4216 The impact of asthma and/or COPD on work absence
Job F.M. van Boven (Groningen, Netherlands), Boudewijn Dierick, Bertine Flokstra-De Blok, Thys Van Der Molen, Nuria Toledo-Pons, Miguel Roman-Rodriguez, Borja G. Cosio, Joan B. Soriano, Janwillem W.H. Kocks

TP-15 Session 436 12:50 - 14:40
Thematic poster: Genetics in chronic pulmonary diseases

Disease(s) : Airway diseases, Interstitial lung disease, Respiratory infections, Thoracic oncology, Respiratory infections
Method(s) : Epidemiology, General respiratory patient care, Cell and molecular biology

Chairs : Guillaume Beltramo (Dijon, France), Arnaud Mailleux (Paris, France), Sukhwinder Singh Sohal (Launceston (TAS), Australia), Isabelle Vachier (Montpellier, France)

PA4217 Late Breaking Abstract - Endobronchial gene-expression clustering in COPD identifies a subgroup with higher level of lymphocytes and accelerated lung function decline
Orestes Carpaij (Groningen, Netherlands), Alen Faiz, Jeunard Boekhoudt, Judith Vonk, Wim Timens, Huib Kerstjens, Gaik Tew, Grimbaldeston Michele, Pieter Hijmstra, Victor Guryev, Corry-Anke Brandsma, Maarten Van Den Berge

PA4218 Genetic and epigenetic analysis of the 17q12-21 locus in the Saguenay–Lac-Saint-Jean (SLSJ) asthma familial cohort. Lucile Pain (Chicouimi, Canada), AndréAnne Morin, Anne-Marie Boucher-Lafleur, Jolyane Meloche, Catherine Laprise

PA4219 The role of genes IL10 (rs1800872) and TNF (rs2239704) in the pathogenesis of bronchial asthma and tuberculosis
Irina Zhalsanova (Tomsk, Russian Federation), Elena Bragina, Maxim Freidin, Nadezhda Babushkina, Anna Garaeva, Olga Kolokolova, Densema Gomboeva, Nataliya Tarasenko, Valery Puzyrev

PA4220 Clinical and transcriptomic profiles of severe asthmatics with high or low expression of the glucocorticoid receptor and importin-7
Pankaj Bhavsar (London, United Kingdom), Ranga Mullegama, Stelios Pavlidis, Kian Fan Chung, Ian Adcock

PA4221 -444 A/C polymorphism in the leukotriene-C4 synthase gene in patients with bronchial asthma
Vladyslava Kmyta (Sumy, Ukraine), Nataliia Cherednichenko, Liudmyla Prystupa

PA4222 Genetic association of circadian clock genes and the risk of childhood asthma
Wojciech Langwiński (Poznan, Poland), Paulina Sobkowiak, Beata Narozna, Irena Wojsyk-Banaszak , Monika Dmitrzak-Weglarz , Anna Breborowicz, Aleksandra Szczepankiewicz

PA4223 The role of GSTT1 and GSTM1 gene polymorphisms in bronchial asthma
Margarida Castro (Lisbon, Portugal), Joana Ferreira, David Sarmento, Carla Carvalho, Andreia Matos, Manuel Bicho

PA4224 The detection of EGFR mutations in liquid biopsy by allele-specific qPCR – the comparative evaluation of two common diagnostic tests
Adam Szpencionciski (Warszawa, Poland), Katarzyna Duk, Piotr Wojcik, Maciej Bryl, Piotr Rudzinski, Wlodzimierz Kupis, Grzegorz Czyzewicz, Piotr Koperski, Tadeusz Orłowski, Joanna Chorostowska-Wynimko

PA4225 Utilisation of biomarker testing to guide therapy in non-small cell lung cancer in a regional lung cancer service
Vijayalakshmi Karunanithi (Stevenage (Hertfordshire), United Kingdom), Thida Win

PA4226 The predictive role of TLR4 +3725 G/C polymorphism in community-acquired pneumonia (CAP) severity course among young respondents with cytokemegalovirus persistence (CMV)
Kiarwa Chichirelo-Konstantynovich (Vinnitsa, Ukraine), Larisa Moroz, Tetyana Konstantynovych
PA4227 New inbred mouse strains for the studying M. tuberculosis – host interactions
Boris Nikonenko (Moscow, Russian Federation), Nadezhda Logunova, Irina Bocharova, Alexander Apt

PA4228 High-Coverage Whole Exome Sequencing Identifies Novel Frameshift Deletion of LRBA Gene in Monozygotic Twin with Common Variable Immunodeficiency.
Asiah Kassim (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Adiratna Mat Ripen, Hamidah Ghani, Chai Teng Chear, Saharuddin Mohamad

PA4229 Mechanical cyclic stretch of the respiration and in vitro microvascular remodeling
Soheila Zeinali (Bern, Switzerland), Emily K. Thompson, Thomas Geiser, Olivier T. Guenat

PA4230 Age-related gene and microRNA expression changes in the airways of healthy individuals
Roy R. Woldhuis (Groningen, Netherlands), Jennie Öng, Ilse M. Boudewijn, Anke Van Den Berg, Joost L. Kluiver, Klaas Kok, Martijn M. Terpstra, Victor Guryev, Maaike De Vries, Corneel J. Vermeulen, Wim Timens, Maarten Van Den Berge, Corry-Anke Brandsma

PA4231 Premature aging in Zmpste24 deficient mice protects them from bleomycin induced lung fibrosis through upregulation of antifibrotic microRNAs
Annie Pardo (México D.F, Mexico), Jazmin Calyeca, Raul J Olmos, Rogelio Jasso, Yalbi Balderas-Martinez, Quetzali Rivera, Moises Eduardo Selman Lama

PA4232 PD-L1 expression on alveolar macrophages and in plasma of IPF patients – original research

PA4233 Eicosanoids and eosinophilic inflammation of airways in stable COPD.
Natalia Celejewska-Wójcik (Kraków, Poland), Aleksander Kania, Karolina Górka, Paweł Nastałek, Anna Gielicz, Lucyna Mastalerz, Marek Sanak, Krzysztof Sladek

PA4234 Differential inflammasome activation in alveoli and bronchioles in response to cigarette smoke or double stranded DNA
Sandra Hodge (Adelaide (SA), Australia), Tran Hai, Eugene Roscioli, Rhys Hamon, Miranda Ween, Greg Hodge, Hubertus Jersmann

PA4235 Characterization of Microparticles in the lung of smokers
Erica Bazzan (Padova (PD), Italy), Claudia Maria Radu, Graziella Turato, Mariaenrica Tinè, Davide Biondini, Marco Damin, Paolo Simioni, Manuel Cosio, Marina Saetta

PA4236 Tiotropium inhibits acetylcholine-induced generation of proinflammatory microparticles by human pulmonary epithelial cells
Tommaso Neri (Pisa (PI), Italy), Valentina Scalise, Ilaria Passalacqua, Roberto Pedrinelli, Pierluigi Paggiaro, Alessandro Celi

PA4237 COPD-related epithelial inflammation drives EMT in primary epithelial ALI-cultures
François Carlier (Watermael-Boitsfort, Belgium), Bruno Detry, Yves Sibille, Charles Pilette

PA4238 Enhanced adverse health effects upon in vivo exposure to multi-walled carbon nanotubes in chronic obstructive pulmonary disease
Fabian Blank (Bern, Switzerland), Seraina Beyeler, Carlos Wotzkow, Amanuel Sengal, Peter Wick, Stefan Tschanz, Beat Haenni, Christophe Von Garnier
<table>
<thead>
<tr>
<th>PA4241</th>
<th>Lung cells from people with COPD are hyperresponsive to E-cigarette vapour</th>
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<tbody>
<tr>
<td></td>
<td>Jack Bozier (Glebe, Australia), Dia Xenaki, Ian Adcock, Brian Oliver</td>
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<thead>
<tr>
<th>PA4242</th>
<th>Cigarette smoking and high fat diet combination: a multi-organ approach to decipher their impact on health</th>
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<tr>
<td></td>
<td>Gaëlle Rény (Lille Cedex, France), Jeanne Alard, Emilie Dubois-Deruy, Morgane Baron, Corinne Grangette, Florence Pinet, Isabelle Wolowczuk, Philippe Gosset, Muriel Pichavant</td>
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<tr>
<th>PA4243</th>
<th>Primary human bronchial epithelial cell responses to diesel and novel biodiesel emissions</th>
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<tr>
<td></td>
<td>Annalicia Vaughan (Arana Hills, Australia), Svetlana Stevanovic, Mohammad Jafari, Rayleen Bowman, Kwun Fong, Zoran Ristovski, Ian Yang</td>
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<tr>
<th>PA4244</th>
<th>Bifidobacterium breve significantly reduces cigarette smoke-induced COPD in C57Bl/6 mice</th>
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<tr>
<td></td>
<td>Flavio Aimbire (Sao Jose Dos Campos (SP), Brazil), Jorge Luis Carvalho, Ana Karolina Sá, Aurileia Britto, Munique Ferreira, Elen Anatriello, Alexandre Keller</td>
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<tr>
<th>PA4245</th>
<th>The Effect of Cordycepin and Simvastatin on Cigarettes Smoke Extract Induced Cytokine and Chemokine Production in Human Bronchial Epithelial Cells</th>
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<tr>
<td></td>
<td>Mohammed Alshehri (Nottingham (Nottinghamshire), United Kingdom), Oliver Brand, Abdullah Alqarni, Alice Pasini, Linhua Pang</td>
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<tr>
<th>PA4246</th>
<th>RAGE Partially Mediates Cigarettes Smoke Extract induced Cytokine and Chemokine Production in Human Bronchial Epithelial Cells</th>
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<td>Mohammed Alshehri (Nottingham (Nottinghamshire), United Kingdom), Oliver Brand, Abdullah Alqarni, Alice Pasini, Linhua Pang</td>
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<tr>
<th>PA4247</th>
<th>Vanadium pentoxide induced epithelial innate cytokines IL-25, IL-33, and thymic stromal lymphopoietin (TSLP) through activating MAPK pathway</th>
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<tr>
<td></td>
<td>Ching-Hsiung Lin (Changhua City, Taiwan), Sheng-Hao Lin, Yi-Rong Li, Hsiu-Hui Chang, Yu-Yun Ching</td>
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<tr>
<th>PA4248</th>
<th>Activation of MAPKs in bronchial-epithelial NCI-H292 cells co-treated with extracellular Hsp70 and bacterial components or cigarette smoke extract</th>
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<tr>
<td></td>
<td>Anita Somborac Bačura (Zagreb, Croatia), Andrea Hulina, Marija Grdić Rajković, Andrea Čeri, Sanja Popović-Grle, Lada Rumora</td>
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<tr>
<th>PA4249</th>
<th>Extracellular Hsp70 modulates inflammatory response in PBEC cells from COPD patients</th>
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<tr>
<td></td>
<td>Andrea Hulina Tomašković (Zagreb, Croatia), Lada Rumora, Miroslav Samaržija, Marnix Jonker, Irene Heijink</td>
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<tr>
<th>PA4250</th>
<th>Combined effect of extracellular Hsp70 and cigarette smoke extract on cytokine secretion from bronchial-epithelial NCI-H292 cell line</th>
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<td>Marija Grdić Rajković (Zagreb, Croatia), Andrea Hulina, Anita Somborac Bačura, Dubravko Jelić, Andrea Vukić Dugac, Lada Rumora</td>
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<th>PA4251</th>
<th>TGF-ß1 affects epithelial vitamin D metabolism and expression of host defence peptides</th>
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<td>Jasmijn A. Schrumpf (Leiden, Netherlands), Dennis K. Ninaber, Anne M. Van Der Does, Pieter S. Hiemstra</td>
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<tr>
<th>PA4252</th>
<th>The effect of dietary fatty acids on inflammation in primary lung mesenchymal cells</th>
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<td>Sandra Rutting (Sydney (NSW), Australia), Jay Horvat, Lisa Wood, Phil Hansbro, Brian Oliver</td>
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<tr>
<th>PA4253</th>
<th>RAGE blocking ameliorates cigarette smoke extract-induced human alveolar type II epithelial cell injury via RAGE-mediated redox sensitive DAMP signaling through Nrf2</th>
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<td>Hanbyeol Lee (Chuncheon, Republic of Korea), Jooyeon Lee, Se-Ran Yang</td>
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<th>PA4254</th>
<th>BPI Fold-Containing Family A Member 1 (BPIFA1) regulates lung neutrophil recruitment and interferon signaling during acute inflammation</th>
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<td>Sara Khanal (new haven, United States of America), Naiqian Niu, Luai Huleihel, Jose Herazo-Maya, Naftali Kaminski, Lauren Cohn, Clemente Britto</td>
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**TP-17**

**Session 438**

**Thematic poster: COPD: novel pathological mechanisms in the airway epithelium**

**Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care

**Method(s):** Physiology, Public health, Cell and molecular biology

**Chairs:** Anne M. van der Does (Leiden, Netherlands), Christoph Beisswenger (Homburg (Saar), Germany), Machteld N. Hylkema (NH Haren, Netherlands), Serena Di Vincenzo (Palermo (PA), Italy)
**PA4255**

**LSC - 2018 - Characterization of decellularized COPD lung matrices using mass spectrometry proteomics**

Darcy Wagner (Lund, Sweden), Franziska Uhl, Barbora Zvarova (Barbora.Zvarova@uvm.edu / University of Vermont, College of Medicine,Burlington, VT), Bethany Ahlers (Bethany.Ahlers@uvm.edu / University of Vermont, Vermont Genetics Network,Burlington, VT), Ying-Wai Lam (Ying-Wai.Lam@uvm.edu / University of Vermont, Department of Biology,Burlington, VT), Erica Beattman (BeattmanE@NJHealth.org / National Jewish Health,Denver, CO), Kelly Schweitzer (SchweitzerK@NJHealth.org / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine,Denver, CO), Irina Petraceh (PetracheI@NJHealth.org / National Jewish Health, Division of Pulmonary, Critical Care and Sleep Medicine,Denver, CO), Daniel Weiss (Daniel.weiss@uvm.edu / University of Vermont, College of Medicine,Burlington, VT), Darcy Wagner (darcy.wagner@med.lu.se / Lund University,Lund)

**PA4256**

**Protease anti-protease imbalance and small airways disease in COPD**

Naoya Tanabe (Kyoto, Japan), Atsuyasu Sato, Tatsushi Mizutani, Yoko Hamakawa, Kiyoshi Uemasu, Susumu Sato, Shigeo Muro, Toyohiro Hirai

**PA4257**

**MMP-12 activates protease activated receptor (PAR)-1, upregulates placenta growth factor and leads to pulmonary emphysema**

Hsin-Han Hou (Taipei, Taiwan), Hao-Chien Wang, Chong-Jen Yu

**PA4258**

**Supervising differentiation for tailoring the airway epithelial cell phenotype**

Charlotte Vernisse (Montpellier, France), Noemie Drappier, Aurelie Fort, Lucie Knabe, Isabelle Vachier, Delphine Gras, Pascal Chanez, Engi Ahmed, Arnaud Boursaud

**PA4259**

**Change of secretory activity of goblet cells of bronchial epithelium in asthma patients in response to cold airway challenge**

Juliy M. Perelman (Blagoveschensk (Amur Oblast), Russian Federation), Aleksey B. Pirogov, Anna G. Prikhodko, Sergey V. Zinoviev, Artem V. Kolosov, Xiaodong Zhou, Qi Li, Elena V. Ushakova

**PA4260**

**Investigating epithelial plasticity following cigarette smoke exposure in primary human bronchial epithelium**

Kristine Nishida (Baltimore, United States of America), Kristine Nishida, Si Chen, Jennifer Nguyen, Allison Keller, Vanshika Agarwal, Venkataramana Sidhaye

**PA4261**

**The effect of anticancer drugs on mucociliary clearance of bronchial ciliary cells in mice**

Nobuyo Tamiya (Kyoto, Japan), Shigekuni Hosogi, Takashi Nakahari, Yoshinori Marumaka, Koichi Takayama

**PA4262**

**Iron Oxide and Titanium Dioxide Nanoparticles Reduce Alveolar Epithelial Cell Stiffening and Contraction Forces**

Isaac Almendros (Barcelona, Spain), Vinicius R Oliveira, Juan J Uriarte, Walter Zin, Daniel Navajas, Ramon Farré

**PA4263**

**Cigarette smoke induces mitochondrial dysfunction via PKCd-p66Shc signaling pathway in human bronchial epithelial cells**

Ming Zhang (Xi'an, China), Yali Li, Jingjing Tang, Jie Zhang, Xia Yang, Hu Shan, Qiuhong Zhang

**PA4264**

**Junctional modulation by lipopolysaccharide on epithelial damage caused by diesel exhaust particles**

Nahyun Kim (Seoul, Republic of Korea), Moo Kyun Park

**PA4265**

**Therapeutic effect of small molecule C in experimental COPD model**

Jooyeon Lee (Chuncheon-si, Gangwon-do, Republic of Korea), Hanbyeol Lee, Se-Ran Yang

**PA4266**

**Change of secretory activity of goblet cells of bronchial epithelium in asthma patients in response to cold airway challenge**

Monique Garcia (São Paulo, Brazil), Alana Santos-Dias, Adilson Santos Andrade-Souza, Manoel Carneiro Oliveira-Junior, Sérgio César-Ferreira, Francine Maria Almeida, Nicole Cristine Rigonato-Oliveira, Ana Paula Ligeiro Oliveira, Timo Siepmann, Marco Idzko, Tobias Müller, Mylo Paulo Vieira

**PA4267**

**ADAM17 protects mice against elastase-induced emphysema via inactivation of CD62L**

Shoji Suzuki (Tokyo, Japan), Makoto Ishii, Takanari Asakura, Ho Namkoong, Satoshi Okamori, Kazuma Yagi, Hirofumi Kamata, Tatsuya Kusumoto, Shizuko Kagawa, Ahmed Hegab, Keisuke Horiiuchi, Naoki Hasegawa, Tomoko Betsuyaku

**PA4268**

**Cigarette smoking induced elevated CXCL5 levels in BALF and plasma of patients with COPD**

Jun Chen (China), Tao Wang, Luqi Dai, Fuqiang Wen

**PA4269**

**Anti-inflammatory effect of hypoxic signaling suppression in the severe COPD model.**

Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Elena Lebedeva

**PA4270**

**Altered protein turnover signaling and myogenesis during impaired recovery of inflammation-induced muscle atrophy in emphysematous mice**

Ramon C.J. Langen (Maastricht, Netherlands), Judith J.M. Ceelen, Anita E.M. Kneppers, Chiel C. De Theije, Stefan J. Van Hoof, Frank Verhaegen, Annemie M.W.J. Schols
PA4271 Extracellular matrix glycosaminoglycans can predict severity and outcome in COPD
Eleni Papakonstantinou (Thessaloniki, Greece), Ioannis Bonovolias, George Karakilicas, Michael Tamm, Renaud Louis, Branišlava Milenkovic, Wim Boersma, Konstantinos Kostikas, Francesco Blassi, Joachim Aerts, Gernot Rohde, Alicia Lacoma, Antoni Torres, Tobias Welle, Daiana Stolz

PA4272 Cigarette smoke induces overexpression of cathepsin S in active smokers with and without COPD
Mylène Wartenberg (Tours, France), Pierre-Marie Andrault, Andrea C. Schamberger, Thibault Chazeirat, Damien Sizaret, Justine Renault, Agnès Petit, Ahlame Saidi, Serge Guyetant, Yves Courty, Oliver Eickelberg, Gilles Lalmanach, Fabien Lecaill

PA4273 AGER gene expression and alternative splicing in bronchial biopsies of smokers and non-smokers
Simon D. Pouwels (Groningen, Netherlands), Cornelis J. Vermeulen, Victor Guryev, Maarten Van Den Berge, Nick H.T. Ten Hacken, Alen Faiz

PA4274 Impairment of lung organoid formation by cigarette smoke treatment of mesenchymal cells
Padmini P. S. J. Khedoe (Den Haag, Netherlands), John-Poul Ng-Blichfeldt, Annemarie Van Schadewijk, Stefan J. Marciniak, Melanie Koenigshoff, Reinoud Gosens, Jan Stolk, Pieter S. Hiemstra

TP-18 Session 439 12:50 - 14:40
Thematic poster: Role of microbial exposure and inflammation in lung injury

Thematic poster: Role of microbial exposure and inflammation in lung injury

PA4276 LSC - 2018 - Differential effect of ARDS on alveolar macrophage efferocytosis compared to bacterial phagocytosis
Rahul Mahida (Birmingham (West Midlands), United Kingdom), David Thickett (d.thickett@bham.ac.uk/ University of Birmingham, Birmingham)

PA4277 Differential effect of M1 and M2 macrophages on airway epithelial cell innate immunity and wound repair
Sander van Riet (Leiden, Netherlands), Padmini Khedoe, Annemarie Van Schadewijk, Pieter Hiemstra

PA4278 Calcineurin-inhibition drives IL13 and IL5 production in differentiating and memory T cells in a Ca++-dependent manner
Karín Björhäll (Mölndal, Sweden), Ulf Gehrman, Johan Jirholt

PA4279 Lung epithelial microvesicles induced by pneumolysin contain mitochondrial cargo
Eleftheria Letsiou (Berlin, Germany), Luiz Gustavo Teixeira Alves, Diana Fatykhova, Matthias Felten, Sarah Berger, Tim Mitchell, Andreas Hocke, Martin Witzenrath

PA4280 Role of microtubule-associated signaling in Staphylococcus aureus-induced lung injury.
Anna Birukova (Baltimore, United States of America), Pratap Karki, Yufeng Tian, Nicolene Sarich, Yunbo Ke, Konstantin Birukov

PA4281 Inoculation Pneumonia Caused by Coagulase Negative Staphylococcus in Mice
Yinggang Zhu (Shanghai, China), Mengmeng Shi, Antoine Monsel, Jean-Jacques Rouby, Jieming Qu

PA4282 Curcumin and curcuminoids attenuate RIP3-related cell death in Streptococcus pneumoniae-induced injury via up-regulating SIRT1 expression
Changchong Li (Wenzhou (Zhejiang), China), Lu Yu, Shunhang Wen, Xiaoguang Hu

PA4283 Impaired Alveolar Macrophage Efferocytosis in ARDS causes accumulation of apoptotic neutrophils & prolonged inflammation
Rahul Mahida (Birmingham (West Midlands), United Kingdom), David Thickett

PA4284 Neutrophil extracellular traps promoted alveolar macrophages pyroptosis in LPS induced ALI/ARDS
Haitao Lee (Chengsha City, China), Pinhua Pan

PA4285 Effects of autophagy on LPS-induced lung inflammation and acute lung injury (ALI) in vitro and in vivo
Lian Liu (Chengdu (Sichuan), China), Dan Xu, Tao Wang, Zhicheng Yuan, Luqi Dai, Fuqiang Wen

PA4286 Anti - IL17 treatment controls responses in lung injury induced by elastase
Monosodium urate crystals exacerbate acute lung injury induced by lipopolysaccharide.
Laura Moreno (Madrid, Spain), Daniel Morales-Cano, Sergio Esquivel-Ruiz, Andrea Martínez-Ramas, Bianca Barreira, Maria Callejo-Arranz, Gema Mondejar-Parreño, Angel Cogollado, Francisco Pérez-Vizcaíno

CD101 eosinophil serves as an early response to suppress endotoxin-induced acute lung injury
Chen Zhu (China), Lingren Zhou, Qingyu Weng, Zhuhua Chen, Songmin Ying, Huahao Shen, Wen Li

The effect of combined therapy using rosuvastatin and dihydroarteminin in a pulmonary malaria mouse model.
CAMILA BATISTA (NITERÓI, Brazil), Helena D’Anunciação De Oliveira, Ana Maria Garcia-Durze, Maiara Lima, Érica Amorim, Adriano Silva, Hugo Caire Castro-Faria-Neto, Tatiana Maron-Gutierrez

The role of prostaglandins in the realization of respiratory effects of interleukin-1β in case of hypercapnia.
Galina A. Danilova (St. Petersburg, Russian Federation), Nina P. Aleksandrova

OSTEOPONTIN PROTECTS AGAINST LUNG INJURY CAUSED BY EXTRACELLULAR HISTONES
Gopinath Kasetty (Lund, Sweden), Praveen Papareddy, Ravi Ky Bhongir, Mohamad Ali, Michiko Mori, Malgorzata Wygrecka, Jonas S Erjefält, Lena Palmberg, Anna Hultgardh, Heiko Herwald, Arne Egesten

Aerobic exercise inhibits acute lung injury: from mouse to human evidence
Regiane Albertini (São José dos Campos, Brazil), Nicole Cristine Rigonato-Oliveira, Breanne Mackenzie, André Luis Bachi, Manoel Oliveira-Junior, Alana Santos-Dias, Adilson Andrade-Sousa, Humberto Delle, Nilsa Damaceno-Rodrigues, Larissa Dulley, Marcela Benetti, Christiane Malfitano, Katia De Angelis, Ana Paula Ligeiro De Oliveira, Asghar Abbasi, Dinah Northoff, Rodolfo Vieira

CXCL5-dependent neutrophil recruitment harms lung barrier function in acute lung injury
Geraldine Nouailles (Berlin, Germany), Sarah Berger, Sandra-Maria Wienhold, Cengiz Goekeri, Ulrike Behrendt, Holger Müller-Redetzky, Kristina Dietert, Corinne Gurtner, Achim Dieter Gruber, Martin Witzenrath

Local depletion of the recruitment of macrophages reduces acute lung injury in rats
Raquel Guillamat-Prats (Barcelona, Spain), Marta Camprubi-Rimbas, Neus Tantinyà, Antonio Artigas

The protective effects of paricalcitol on renal ischemia reperfusion induced lung injury
Süreyya Yilmaz (Diyarbakir, Turkey), ZülfüKar Yilmaz, Ali Kemal KadiroğLu, Veysi BahadıR, İbrahim Kaplan, Aydin Ketani, Engin Deniz Yılmaz, Kamil Yilmaz, Mehmet Emin Yılmaz

Effect of morphine sulphate on histopathologic changes in lung tissue after ischemia reperfusion injury
Hıdır Esme (Konya, Turkey), Nuri Duzgun, Pınar Karabağlı, Mehmet Sinan İyisoy, Melike Duran

Acute lung injury induced by intestinal ischemia and reperfusion is altered in obese female mice
Yanira Riffo-Vasquez (London, United Kingdom), Evelyn Fantozzi, Sara Rodrigues-Garbin, Fernanda Ricardo-Da Silva, Ricardo Oliveira-Filho, Domenico Spina, Wothan Tavares-De-Lima

Impact of systemic erythropoietin deficiency on the lung of mice exposed to hypoxia
Lisaşine Haine (bobigny, France), Céline-Hivda Yegen, Dominique Marchant, Carole Planès, Nicolas Voituron*, Emilie Boncoeur*

Alveolar Tidal Flooding – a New Mechanism of Ventilator-Induced Lung Injury?
Jana Grune (Berlin, Germany), Wolfgang M Kuebler, Arata Tabuchi

Mechanical Preconditioning of Lung Mesenchymal Stem Cells Improves Ventilation Induced Lung Injury in Rats
Isaac Almendros (Barcelona, Spain), Paula N Nonaka, Bryan Falcons, Ramon Farré, Daniel Navajas
PA4303 The morphological change in the diaphragma and soleus on rats after mechanical ventilation.
Xiaoping Zhu (Shanghai, China)

PA4304 A major inflammatory cytokine TNF-a inhibits the ventilatory response to hypoxia
Anna Klinnikova (Saint-Petersburg, Russian Federation), Galina Danilova, Nina Alexandrova

PA4305 The severity of ventilator-induced lung injury is regulated by the clock gene Bmal1 in myeloid cells
Matthias Felten (Berlin, Germany), Luiz Gustavo Teixeira-Alves, Eleftheria Letsiou, Holger Müller-Redetzky, Achim Kramer, Bert Maier, Martin Wittenra

PA4306 Effects of positive end-expiratory pressure-like cyclic stretching on the production of interleukin-6 protein in normal human pulmonary artery endothelial cells
Kozue Kobayashi (Kagamihara (Kanagawa prefecture), Japan), Hidenori Inaoka, Kenichi Kokubo, Hirosu Kobayashi

PA4307 Enhanced endothelial barrier protective and anti-inflammatory effects by synthetic iloprost-conjugated phospholipid.
Konstantin Birukov (Baltimore, United States of America), Olga Oskolkova, Yue Li, Chen-Ou Zhang, Grzegorz Gawlak, Yunbo Ke, Anna Birukova

PA4308 Prognostic role of matrix metalloproteinase system / inhibitors in assessing the nature of reparative changes in infiltrative pulmonary tuberculosis (ITL).
Diljara Esmedlyaeva (St. Petersburg, Russian Federation), Pavel Gavrilov, Nina Alexeeva, Marina Dyakova, Larisa Kryukhina, Evgeny Sokolovich

PA4309 Changes in the enterobacterial flora and the hydrogen gas-producing ability of the enterobacterial flora in a mouse model of acute lung injury
Ryota Yoshizawa (Kagamihara, Japan), Shota Ito, Kozue Kobayashi, Kenichi Kokubo, Hirosu Kobayashi

PA4310 Morphological characteristics and mechanism of a rat model of reexpansion pulmonary edema
Shinichi Otani (Saitama, Japan), Takashi Yashiro, Shunsuke Endo

PA4311 The effect of airway pressure release ventilation on circulation and respiration in post-operation of cardiac surgery patients.
Huiqing Ge (Hangzhou (Zhejiang), China)

PA4312 Deciphering molecular mechanisms of cathepsin S resistance to major chemical oxidants of cigarette smoke
Mylène Wartenberg (Tours, France), Pierre-Marie Andrault, Ahlame Saidi, Lydie Nadal-Desbarats, Fabien Lecaille, Gilles Lalmach

PA4313 Ozone induced acute and chronic alterations in the lung in mice: a combined digital imaging and functional analysis.
Yvon Jule (Marseille, France), Chloé Michaudel, Louis Faucquer, Dieudonné Togbe, Bernhard Riffel

PA4314 Involvement of laminin beta-2 subunit in lung smooth muscle contraction and remodelling
Ivonne Pacheco-Alba (Mexico city, Mexico), Blanca Bazán-Perkins, Patricia Ramos-Ramirez

TP-20 Session 441 12:50 - 14:40
Thematic poster: Cardiovascular and metabolic consequences of sleep-disordered breathing

Disease(s) : Sleep and breathing disorders Airway diseases
Method(s) : Epidemiology Endoscopy and interventional pulmonology General respiratory patient care

Chairs : Simon Dominik Herkenrath (Köln, Germany), Esther Irene Schwarz (Zürich, Switzerland), Raluca Mihaela Bercea (Kolnes, Norway), Michael Arzt (Regensburg, Germany)

PA4315 The impact of obstructive sleep apnea in case of acute coronary syndrome
George Calcaianu (Riedisheim, France), Edouard Virot, Didier Bresson, Mihaela Calcaianu, Carmen Iamandi, Didier Debievre

PA4316 Systematic coronary risk evaluation among obstructive sleep apnea patients
Aleksander Kania (Kraków, Poland), Grazyna Bochenek, Pawel Nastalek, Natalia Celejewska-Wojcik, Jakub Pabjanczyk, Krzysztof Regulski, Andrzej Opalinski, Barbara Mrzyglod, Mirosław Glowacki, Krzysztof Sladek

PA4317 Obstructive sleep apnoea and cardiovascular events in a Chinese cohort
PEIHANG XU (HongKong, Hong Kong), Dyt Fong, Ckm Hui, Mms Lui, Dcl Lam, Msm Ip

PA4318 Diagnosis of left ventricular diastolic dysfunction among obstructive sleep apnea patients
Yong Mei Ching (Kuching (Sarawak), Malaysia), Diana Hui Ping Foo, Sze Shyang Kho, Swee Kim Chan, Alan Yeon Yip Fong, Siew Teck Tie
Correlations between severity of obstructive sleep apnoea and systolic pulmonary artery pressure: preliminary results  
Lorenzo Marra (bari (BA), Italy), Sebastiano Cicco, Giorgio Castellana, Valentina Di Lecce, Pierluigi Carratù, Giuseppe Ranieri, Angelo Vacca, Onofrio Resta

Inverse relationship between objective snoring time and the prevalence of plaque in women  
Jinyoung Kim (Ansan, Republic of Korea), Allan Pack, Barbara Riegel, Seung Ku Lee, Chol Shin

Thrombolysis and evolution of sleep apnea in ischemic stroke  
Jaana Huhtakangas (Oulu, Finland), Tarja Saarela, Juha Huhtakangas

Sleep disorder level in stroke patients and related factors  
Taha Tahir Bekci (Konya, Turkey), Selman Parlak, Halim Yılmaz, Lütfiye Parlak

The importance of RDW in obstructive sleep apnea syndrome.  
Seda Beyhan Sagmen (Istanbul, Turkey), Elif Torun Parmaksiz, Nesrin Kiral, Banu Salepçi, Sevda Comert

Nocturnal respiratory failure in moderate sleep apnoea as predictive factor of cardiovascular and metabolic comorbidities  
Valentina Di Lecce (Modugno (BA), Italy), Lorenzo Marra, Giorgio Castellana, Pierluigi Carratù, Vincenzo Nicola Valerio, Carla Santomasi, Onofrio Resta

The efficiency of Epworth sleepness scale and Berlin questionnaire for detecting Obstructive sleep apnea syndrome(OSA) in 100 Tunisian patients with non valvular atrial fibrillation(AF)  
Amany Touil (Tunis, Tunisia), Jihen Ben Amar, Kais Sammoud, Manel Ben Halima, Sana Quali, Mohamed Sami Mourali, Besma Dhahti, Haifa Zaibi, Hager Khouch, Ines Laouini, Mohamed Ali Baccar, Saloua Azzabi, Hichem Aouina

Effect of treatment of CSA/CSR on left ventricular ejection fraction in heart failure– a network meta-analysis  
Esther Irene Schwarz (Zürich, Switzerland), Frank Scherff, Sarah R Haile, Malcolm Kohler

Recurrent heart rate rises, as a marker of sleep fragmentation, return more rapidly during CPAP withdrawal than oxygen desaturations  
Saxon Pattenden (Oxford, United Kingdom), Christopher Turnbull, John Stradling

Hypoxia effect on the hepatic profile, glucose metabolism and cardiovascular risk.  
Beatriz Aldave Orzaiz (, Spain), Pedro Landete Rodriguez, Carmen Acosta Gutierrez, Marta Hernandez Olivo, Maria Gonzalez González, Jose Manuel Muñoz Olmedo, Alfonso Friera Reyes, Ana Sanchez Azofra, Enrique Zamora Garcia, Agueda Gonzalez Rodriguez, Joan B Soriano, Carmelo Garcia Monzon, Julio Ancochea Bermúdez

Ischemia modified albumin in Patients with Obstructive Sleep Apnea Syndrome  
Mustafa Düger (Tekirdağ, Turkey), Ekrem Cengiz Seyhan, Mustafa Bolatkalı, Zeynep Kansu, Engin Aynaci

Apelin and ischemia modified albumin levels in heart failure patients with sleep disordered breathing  
Nazar Bayram (Gaziantep, Turkey), Beren Taşkin Doğan, Meral Uyar

The effect of CPAP treatment on Galectin-3 level in patients with severe obstructive sleep apnea  
Iana Andreieva (Zaporizhia, Ukraine)

Effect of continuous positive airway pressure on lipid profile in patients with severe OSAS  
Beatrix Simon (Budapest, Hungary), Bettina Gabor, Imre Barta, Csilla Paska, Robert Szvatek, Gyorgy Boszormenyi Nagy, Eva Vizi, Balazs Antus

The influence of long-term CPAP therapy on metabolic variables in obstructive sleep apnea patients  
Wojciech Kuczyński (Lódz, Poland), Aleksandra Stolarz, Piotr Biaślewicz

Thematic poster: Treatments that can serve as an alternative to positive airway pressure (PAP)
Sleep apnea syndrome and its association with serum vitamin D level
Dabboussi Selsabıl, Ammar Wissem, Mhamdi Samira, Moatamri Zied, Aichaouia Chiraz, Khadhraoui Mohsen, Rzaieg Cheikh

Is Vitamin D Deficiency Associated With Obstructive Sleep Apnea Syndrome?
Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Nouran Azab, Rabab Wahsh, Yaser Gabashy, Heba Sharaf Eldean

One year vitamin D and parathyroid hormone influence in patients with OSAS and CPAP treatment
Daniela Krasimirova (Sofia, Bulgaria), Daniela Petrova, Ogman Georgiev, Radoslav Bilyukov, Tzanko Mondeshki, Martin Nikolov, Adelina Tzakova, Ventislava Pencheva Genova, Bilyana Stancheva, Sveda Naydenska, Petko Shoshkov

Postural effects on nasal resistance in obstructive sleep apnoea (OSA) and efficacy of a novel oral appliance
Benjamin Tong (Randwick, Australia), Carolin Tran, Andrea Ricciardiello, Michelle Donegan, Nicholas Murray, Alan Chiang, Jason Amatoury, Danny Eckert

Oral appliance is a useful treatment for obstructive sleep apnoea irrespective of disease severity
Hoi Yee Kwan (Kowloon, Hong Kong), Wai Kuen Tang, Sai On Ling, Yik Ning Poon, Anthony Pak Yuen Yau, Chie Wai Yim, Thomas Yan Wing Mok

Mandibular advancement splint for treatment of obstructive sleep apnea
Ana Cristina Alves Ferreira (Vila do Conde, Portugal), Pedro Ramalho, Catarina Ferreira, Fátima Teixeira, Fátima Carvalho

Clinical Impact of 2 types of Mandibular Retention Devices (MRD) - Narval CADCAM vs Narval nonCADCAM – on OSA: ESTAMPS STUDY
Adeline Kerbrat (Paris, France), Olivier Vinuesa, Elodie Aversenq, Laurent Morin, Florent Lavergne, Jean-Baptiste Kerbrat

Effect of Long Term Oral Appliance Therapy on Obstruction Pattern in Patients with Obstructive Sleep Apnea
Dong-Kyu Kim (Chuncheon-si, Gangwon-do, Republic of Korea)

Cardiovascular effects of a mandibular advancement device versus continuous positive airway pressure in moderate obstructive sleep apnea
Grietje E. De Vries (Groningen, Netherlands), Aarnoud Hoekema, Ewout Houwerzijl, Wouter Jacobs, Jan Van Der Maten, Boudewijn Stegenga, Huib Kerstjens, Peter Wijkstra

Oral Appliances (OAs) treatment in Obstructive Sleep Apnea (OSA) : a three years experience
Paolo Righini (Torino (TO), Italy), Alessandro Oliva, Valter Gallo, Giovanni Maria Ferrari, Massimo Comune, Marco Ottavio Gilardino, Roberto Prota

Combined CPAP and oral appliance (OA) therapy reduces PAP requirements and pharyngeal pressure (Pepi) swings in OSA
Benjamin Tong (Randwick, Australia), Carolin Tran, Andrea Ricciardiello, Michelle Donegan, Nicholas Murray, Alan Chiang, Jason Amatoury, Danny Eckert

Obstructive sleep apnea after pharyngeal flap surgery in children
Alessandro Amaddeo (Paris, France), Ines Trabelsi, Sonia Khirani, Benoit Michel, Arnaud Picard, Brigitte Fauroux

Polygraphic patterns predictive of success of upper airway surgery in obstructive sleep apnea patients
Anna Monzani (Camparada (MI), Italy), Paola Faverio, Alberto Braghiroli, Massimo Godio, Paolo Aluffi Valletti

Impact of Inspiratory Muscle Training on Obstructive Sleep Apnea in Coronary Artery Disease Patients. The RICAOS study: preliminary results.
Pierre Labeix (Saint-Etienne, France), Mathieu Berger, Hayet Iddir, Frederic Roche, David Hupin

Effect of Tongue Motor Task Training on Serotomeric Excitatory Drive to Genioglossus Electromyographic Activity in Rats
Wenyang Li, Hongyu Jin, Ying Zou, Wei Wang

The Different Effect of Tongue Motor Task Training (TTT) and Strength Training (ST) on the Modulation of Genioglossus Corticometric Excitability in Rats
Wenyang Li, Hongyu Jin, Ying Zou, Wei Wang

Soft cervical collar in obstructive sleep apnea, a pilot study
Philippe Bordier (Pessac, France), Aurelia Lastate, Sebastien Orazio

Effects of energy restricted diet on sleep and metabolic parameters in obese Obstructive Sleep Apnea patients
Camila De Melo (São Paulo (SP), Brazil), Marcus Vinicius Dos Santos, Mariana Pantaleão Del Re, Sandra Maria Lima Ribeiro, Hanna Karen Moreira Antunes, Sonia Maria Togeiro, Sergio Tufik, Marco Túlio De Mello
Thematic poster: Sleep and breathing control: phenotypes

Disease(s): Sleep and breathing disorders

Method(s): Respiratory intensive care, General respiratory patient care, Public health, Epidemiology

Chairs: Ludger Grote (Göteborg, Sweden), Patrick B. Murphy (Oxted (Surrey), United Kingdom), Richard Staats (Murches, Portugal), Jan A. Hedner (Göteborg, Sweden)

**PA4355** Does the seasons and PM10 levels affect to sleep?
Peri Meram Arbak (Düzce, Turkey), Pınar Yıldız Gülan, Ege Gulec Balbay, Mehmet Fatih Elverişli, Merve Erçelik

**PA4356** The impact of smoking status on obstructive sleep apnea (OSA) severity.
Piotr Bielicki (Warszawa, Poland), Anna Trojan, Piotr Sobieraj

**PA4357** The prevalence of sleep-disordered breathing in the general population: results of the Asklepios Cohort
Fre Bauters (Ghent, Belgium), Marc Debuyzere, Julio Chirinos, Katrien Hertegonne, Ernst Rietzschel

**Cross sectional study of the risk for OSAS in the general population of 20 Greek Islands and assessment of the OSAS awareness.**
Sotirios Zarogiannis (Larisa, Greece), Anastasia Adamou, Stefanos Giannopoulos, Christina Arvaniti, Ioannis Belios, Dimitra Dalampira, George Eleftheriadis, Thomai Zinoviou, Petros Kassas, George Vavougios, Chrissi Hatzoglou, Konstantinos Gourgoulians

**PA4359** Sleep apnea in Tibetans and Han long-term high altitude residents
Lu Tan (Chengdu, China), Taomei Li, Michael Furian, Xiaofang Xue, Rong Ren, Junying Zhou, Ye Zhang, Jiaming He, Silvia Ulrich, Konrad E Bloch, Xiangdong Tang

**PA4360** Young obstructive sleep apnea patients: characteristics, adherence and hospitalizations tendencies
Daniel López-Padilla (Madrid, Spain), Elena R. Jimeno, Milagros Llanos Flores, Virginia Gallo González, Zichen Ji, Soledad López Martín, José Terán Tinedo, Elena Ojeda Castillejo, Luis Puente Maestu

**PA4361** Younger people have more severe obstructive sleep apnea syndrome.
Stefan A. Mihacuta (Timisoara (Timis), Romania), Roxana Pleava, Kevin Muller, Alexandra Rus, Alexandru Ciotlos-Sinoi, Daniela Reisz, Rodica Dan

**PA4362** Sleep apnea-hypopnea syndrome in elderly obese patients: clinical and functional profiles
Donies Masmoudi (Sfax, Tunisia), Fidaa Alaya, Olfa Jallouli, Rim Kammoun, Asma Haddar, Ines Kammoun, Kaouthar Masmoudi

**PA4363** Defining the core components of a clinical review of people using continuous positive airway pressure (CPAP) therapy - an international e-Delphi study
Phyllis Murphie (Dumfries (Dumfries and Galloway), United Kingdom), Stuart Little, Brian Mckinstry, Hilary Pinnock

**PA4364** Obstructive sleep apnea and metabolic syndrome in 1,600 adult Japanese PSG cases.
Akemi Matsuo (Nagano, Japan), Kei Sonehara

**PA4365** The Relation Between Cardiovascular Diseases And Anthropometric Measurements In Patients With Obstructive Sleep Apnea: A Single Center Study
Asiye Kanbay (Kayseri, Turkey), Halil Ibrahim Yakar, Sabahat Alişır Ecder, Erkan Ceylan

**PA4366** Impact of Obstructive Sleep Apnea, Age, Body mass index and Neck circumference on timing of Acute Coronary Syndrome onset
Muhammad Hanis Muhmad Hamidi (Batu Caves, Malaysia), Muhammad Hanis Muhmad Hamidi, Muhammad Amin Ibrahim, Johan Rizwal Ismail, Mohd Azri Mohd Zim, Ahmad Izuanuddin Ismail

**PA4367** Laryngeal obstruction in moderate and severe obstructive sleep apnea patients requested higher CPAP level during treatments
Yung-Lun Ni (Taichung, Taiwan), Yu-Lun Lo, Tsai-Yu Wang, Ting-Yu Lin

**PA4368** Rapid eye movement-related obstructive sleep apnea: a retrospective study
Catarina Marques (Gondomar, Portugal), Daniela Machado, Inês Franco, Inês Sanches, Regina Monteiro, Daniela Ferreira

**PA4369** A retrospective study about the causes of excessive daytime sleepiness except for sleep-disordered breathing in Japan.
Keisaku Fujimoto (Matsumoto, Japan), HARUKA SUZUKI

**PA4370** Factors affecting the quality of life in patients with obstructive sleep apnea syndrome
Maher Maoua (Sousse, Tunisia), Haifa Aroui, Houda Kalboussi, Maher Maoua, Imen Kacem, Sana Elguedri, Aicha Brahem, Olfa Elmaalel, Souheil Chatti, Halima Bensalem, Mohamed Benzarti, Najib Mrizek
Sleep patterns and predictors of poor sleep quality among Tunisian medical students (MS).

hadhemi rejeb (sousse, Tunisia), Mouna Ben Khelifa, Rania Kaddoussi , Ines Ben Saïda, Aymen Najjar, Sana Aissa, Wafa Benzarti, Imen Gargouri, Ahmed Abdelghani, Abdelhamid Garrouche, Abdelaziz Hayouni, Mohamed Benzarti

Sleep quality and quality of life in physicians and nurses working at a Central Hospital

Joana Sofia Vicente De Carvalho (Bobadela LRS, Portugal), Inês Oliveira, Rita Rosa, Catarina Barata, Marta Fradinho, Luisa Oliveira, Fernando Nogueira

Night shifts: impact of a lifetime

Rita Coelho Soares Rosa (Lisboa, Portugal), Catarina Barata, Ines Oliveira, Joana Carvalho, Marta Fradinho, Luisa Oliveira, Fernando Nogueira

Effect of invasive mechanical ventilation (IMV) on sleep architecture in intensive care unit (ICU).

Brijesh Prajapat (Rohtak (Haryana), India), Dhuva Chaudhry, A S Sandhya

Thematic poster: COPD management

Disease(s): Airway diseases, Respiratory critical care

Method(s): Respiratory intensive care, Public health, Imaging, General respiratory patient care

Chairs: Alexander Mathioudakis (Manchester, United Kingdom), Mario Cazzola (Roma (RM), Italy), Huib A.M. Kerstjens (Groningen, Netherlands), Ioannis Bonovolias (Thessaloniki, Greece)

Dual bronchodilator response according to bronchitis symptoms in the FLAME study

Karen Mezzi (Basel, Switzerland), Alexander Mackay, Konstantinos Kostikas, Stefan-Marian Frent, Pascal Pfister, Pritam Gupta, Francesco Patalano, Donald Banerji, Jadwiga A. Wedzicha

Indacaterol/glycopyrronium vs tiotropium or glycopyruron in treatment naive COPD patients: a pooled analysis

Petter Olsson (Stockholm, Sweden), Shigeo Muro, Hajime Yoshihise, Alexander J. Mackay, Konstantinos Kostikas, Pritam Gupta, Jadwiga A. Wedzicha

Estimating potential cost savings associated with managing COPD according to GOLD 2017 recommendations in UK primary care: a CPRD study

Alexander Mathioudakis (Manchester, United Kingdom), Jorgen Vestbo, Alicia Gayle, Scott Dickinson, Kevin Morris, Samantha Webser, Chris Poole

Indacaterol/glycopyrronium increases lung ventilation in COPD patients as measured by hyperpolarized 3He MRI

Hanns-Christian Tillmann (Basel, Switzerland), David Singh, Dinesh Saralaya, Rod Lawson, Jim Wild, Jonathan Goldin, Konstantinos Kostikas, Kristin Smith, Surendra Machineni, Denise Yates

Effect of ICS withdrawal on COPD exacerbations in patients on triple therapy at baseline

Gary T. Ferguson (Farmington Hills, United States of America), Asif Shaikh, Kay Tetzlaff, Achim Mueller, Henrik Watz

Health status changes in COPD patients after real-life switch from tiotropium or salmeterol/fluticasone to indacaterol/glycopyruron using the EQ-5D-3L instrument: results from the POWER study

Syed Anees (Windsor (ON), Canada), Andrew Mcivor, Kenneth R. Chapman, Irvin Mayers, Driss Rochdi, David Prefontaine, Alan Kaplan

Extrafine beclometasone dipropionate, formoterol fumarate, glycopyruron (BDP/FF/G) and exacerbation recurrence: post-hoc analysis of the TRIBUTE study.

George Georges (Cary, United States of America), Leonardo Fabbrini, Dave Singh, Jorgen Vestbo, Massimo Corradi, Alessandro Guaconi, Mario Sciri, Isabella Montagna, Hélène Prunier, Stefano Vezzoli, Stefano Petruzzelli, Alberto Papi

Pharmacological treatment of stable Chronic Obstructive Pulmonary Disease: Where do we stand?

Fatma Chermiti Ben Abdallah (Tunis, Tunisia), Marwa Kacem, Imen Bachouch, Nidhal Belloumi, Yasmine Hididene, Soraya Fenniche

FF/UMEC/VI versus FF/VI and UMEC/VI in the ELLIPTA device in patients with COPD: Subgroup analyses from the IMPACT trial

Dave Singh (Manchester, United Kingdom), Frank Barnhart, Noushin Brealey, Gerard Criner, Mark Dransfield, David M Halpin, Melian K Han, C Elaine Jones, Sally Kilbride, Peter Lange, David A Lomas, Fernando J Martinez, Dalal Mouneime, Robert Wise, David A Lipson

Exacerbation outcomes with LAMA/LABA and ICS/LABA in high risk COPD patients in the IMPACT trial

David A Lipson (Wynnewood, United States of America), Frank Barnhart, Isabelle Boucot, Courtney Crim, Noushin Brealey, Gerard J Criner, Mark Dransfield, David M.G Halpin, Sally Kilbride, Melian K Han, Peter Lange, David A Lomas, Fernando J Martinez, Dave Singh, Ian Naya Naya, Christine Elaine Jones, Robert Wise
Comparison of LAMA/LABA vs ICS/LABA in high risk COPD patients: Pre-specified analysis on lung function and health status from the IMPACT trial

PA4385
David A Lipson (Wynnewood, United States of America), Frank Barnhart, Isabelle Boucot, Courtney Crim, Noushin Brealey, Gerard J Criner, Mark Dransfield, David M.G Halpin, Sally Kilbride, Meilan K Han, Peter Lange, David A Lomas, Fernando J Martinez, Dave Singh, Ian Naya Naya, Christine Elaine Jones, Robert Wise

LABA/LAMA combinations efficacy evaluation therapy of COPD patients with emphasized morning and night symptoms

PA4386
Tanja Pavlović (Beograd, Republic of Serbia), Dejan Pavlović, Miodrag Vukčević, Vladimir Žugić

Baseline symptom burden and dual bronchodilator response in the FLAME study

PA4387
Petter Olsson (Stockholm, Sweden), Alexander Mackay, Konstantinos Kostikas, Stefan-Marian Frent, Pascal Pfister, Pritam Gupta, Francesco Patalano, Donald Banerji, Jadwiga A. Wedzicha

Indacaterol/Glycopyrronium improves pulmonary ventilation and ventilation inhomogeneity in the CLAIM Study

PA4388
Jens Vogel-Clausen (Hannover, Germany), Till Kaireit, Andreas Voskrebzenz, Christian-Olaf Schoenfeld, Christoph Czerner, Julius Renne, Hanns-Christian Tillmann, Korbinian Berschneider, Simone Hiltl, Johann Bauersachs, Tobias Welte, Jens M. Hohlfeld

Comparison of dual vs triple therapies in patients hospitalized for COPD in France: a claims data study

PA4389
Faustine Dalon (Lyon, France), Nicolas Roche, Manon Belhassen, Maeva Nolin, Daniel Vesque, Philippe Devillier, Gaetan Deslee, Bruno Housset, Hervé Pegliasco, Eric Van Ganse

Indacaterol/Glycopyrronium improves pulmonary ventilation and ventilation inhomogeneity in the CLAIM Study

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Jens Vogel-Clausen (Hannover, Germany), Till Kaireit, Andreas Voskrebzenz, Christian- Olaf Schoenfeld, Christoph Czerner, Julius Renne, Hanns-Christian Tillmann, Korbinian Berschneider, Simone Hiltl, Johann Bauersachs, Tobias Welte, Jens M. Hohlfeld

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Faustine Dalon (Lyon, France), Nicolas Roche, Manon Belhassen, Maeva Nolin, Daniel Vesque, Philippe Devillier, Gaetan Deslee, Bruno Housset, Hervé Pegliasco, Eric Van Ganse

Efficacy of tiotropium/olodaterol on sedentary/active time in COPD patients: VESUTO study

PA4390
Yoshiaki Minakata (Wakayama Wakayama, Japan), Takashi Motegi, Jun Ueki, Yasuhiro Gon, Tetsuo Seki, Tatsuhiko Anzai, Shuhei Nakamura, Kazuto Hirata, Masakazu Ichinose

Efficacy of tiotropium/olodaterol combination therapy on long-term heart rate and blood pressure in COPD patients

PA4391
Stefan Andreas (Immenhausen, Germany), Lorcan Megarvey, Ulrich Bothner, Matthias Trampisch, Alberto De La Hoz, Matjaz Fležar, Peter Alter, Roland Buhl

Effects of Inhaled Long Acting Muscarinic Antagonist (LAMA) on Lung Functions in Adult Stable Bronchiectasis

PA4392
Metinee Tungnantawiwat (Bangkok, Thailand), Kamon Kitinarong

AMPLYF: efficacy of acidinium vs tiotropium in COPD

PA4393
Sanjay Sethi (Buffalo, United States of America), Edward Kerwin, Henrik Watz, Gary T Ferguson, Robert Mroz, Rosa Segarra, Eduard Molins, Diana Jarreta, Esther Garcia-Gil

Efficacy of indacaterol/glycopyrronium versus salmeterol/fluticasone in current and ex-smokers: a pooled analysis of IGNITE trials

PA4394
David M. G. Halpin (Exeter Devon, United Kingdom), Claus F. Vogelmeier, Alexander J. Mackay, Karen Mezzi, Pankaj Goyal, Pritam Gupta, Konstantinos Kostikas, Jadwiga A. Wedzicha

Reproducibility of COPD blood eosinophil counts

PA4395
Thomas Southworth (Manchester (Greater Manchester), United Kingdom), Gussie Beech, Umme Kolsum, Dave Singh

Blood eosinophils in COPD: relationship with CLCA1 and mucus production

PA4396
Gabriella Long (Hayling Island (Hampshire), United Kingdom), Umme Kolsum, Andrew Higham, Sririam Sridhar, Tuyet-Hang Pham, Thomas Southworth, Paul Newbold, Dave Singh

Oropharyngeal and sputum microbiome dynamics with the same pattern following exacerbation of chronic obstructive pulmonary disease

PA4397
Jin Su (Guangzhou (Guangdong), China), Haiyue Liu, Yanx Lin, Hongwei Zhou

The impact of smoking on airway microbiome and mycobiome of COPD/AECOPD patients

PA4398
Jin Su (Guangzhou (Guangdong), China), Haiyue Liu, Yanx Lin, Rongchang Chen

The study of airway microbiome and mycobiome of COPD and AECOPD patients

PA4399
Jin Su (Guangzhou (Guangdong), China), Haiyue Liu, Yanx Lin, Rongchang Chen
PA4400 Association of ER22/23EK glucocorticoid receptor gene polymorphism with glucocorticoids dosage in COPD
Vera Djordjevic (Niš, Republic of Serbia), Milena Despotovic, Ivana Stankovic, Tatjana Jevtovic Stoimenov

PA4401 Fevipiprant inhibits prostaglandin D2 mediated activation of group 2 innate lymphoid cells (ILC2s)
Wentao Chen (Oxford (Oxfordshire), United Kingdom), Clare Hardman, Paul Batty, Jian Luo, Yanqi Wu, Luzheng Xue, Graham Ogg, David A Sandham, Veit J Erpenbeck

PA4402 Cholinergic muscarinic receptors and airway remodelling in severe asthma
Fabio L. M. Ricciardolo (Orbassano (TO), Italy), Anna Folino, Vitina Carriero, Michela Bullone, Michael Pieper

PA4403 Longitudinal measurement of VOCs in breath demonstrates pharmacokinetic washout curve
Marc P. C. van der Schee (Amsterdam, Netherlands), Jasper Boschmans, Rob Smith, Russell Parris, Billy Boyle, Duncan Athorp, Simon Kitchen

PA4404 Investigating the safety of capsaicin cough challenge in severe asthma
Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Stephen Fowler, Robert Niven, Dorothy Ryan, Kimberley Holt, Joanne Mitchell, Rachel Dockry, Bashar Al Sheikhly, Imran Satia, Jacky Smith

PA4405 Inhaled LPS challenge in healthy subjects: a dose escalation study
Alex Mulvanny (Manchester (Greater Manchester), United Kingdom), Natalie Jackson, Caroline Pattwell, Sophie Wolsionka, Thomas Southworth, Dave Singh

PA4406 Rhinovirus Challenge in Asthmatics and Healthy Volunteers to Evaluate the Safety and Appropriate Dose of a GMP Human Rhinovirus 16 Preparation for Challenge Studies in Mild-Moderate Asthmatics taking ICS
Norbert Krug (Hannover, Germany), Jens M. Hohlfeld, Antonios Aliprantis, Leonidas Carayannopoulos, An Bautmans, Martine Robberechts, Inge De Lepeleire, Holger Ziehr, Bob Thornton, Peter J. Sterk, Rene Lutter And The U-Biopred Study Group

PA4407 Utility of drug reaction assessments for inhaled therapies in patients with chronic suppurrative lung diseases: results from 5 years of drug reaction assessments
Giulia Rinaldi (London, United Kingdom), Brittany Dennis, Georgie Houseley, Owais Shah, Michael Loebinger

PA4408 The acute effect of inhaled salbutamol and ipratropium on aortic stiffness and pressure wave reflection
Hussein Al-Rubaye (London, United Kingdom), Kashyap Chauhan, Monia Yasmine Arzim, Valentina Abi Osman, Emma H Baker, Fok Henry, Ruickbie Sachelle, Daniel Burrage

PA4409 Inhalations of Tranexamic Acid for hemoptysis: A randomized controlled trial
Ori Wand (Kfar Sava, Israel), Elad Guber, Alexander Guber, Gali Epstein-Shocht, Lilach Israeli-Shani, David Shitrit

PA4410 Impact of glucagon-like peptide 1 receptor agonists on lung function of diabetic patients: a 52 weeks clinical trial
Paola Rogliani (Roma (RM), Italy), Luigino Calzetta, Angelo Coppola, Mario Cazzola, Davide Lauro, Maria Gabriella Matera

PA4411 Novel treatment of eosinophilic bronchitis with allergic fungal sinusitits using mepolizumab- One year follow-up.
Yuichiro Takeshita (atami, Japan), Seiichi Nobuyama, Yukiko Kanetsuna, Tetsuo Satou

PA4412 Long-acting bronchodilators and synergistic interaction: a challenge across the currently available LABA/LAMA combinations
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Ermanno Puxeddu, Francesco Facciolo, Mario Cazzola, Maria Gabriella Matera

PA4413 Characterisation of a chronic pre-clinical model of allergic asthma
Pauline Flajolet (London, United Kingdom), Jorge De Alba, Kristof Raemondeck, Maria G. Belvisi, Mark A. Birrell

TP-25 Session 446 12:50 - 14:40

Thematic poster: Airway disease: recent discoveries

Disease(s): Airway diseases, Respiratory infections, Interstitial lung diseases, Sleep and breathing disorders, Respiratory critical care

Method(s): Physiology, Cell and molecular biology, Epidemiology, General respiratory patient care, Surgery, Public health

Chairs: Pierre-Régis Burgel (Sorbonne Paris Cité, France), Vasileios Andrianopoulous (Schönau am Königssee, Germany), Apostolos Bossios (Stockholm, Sweden), Jose Luis Lopez-Campos Bodineau (Sevilla, Spain)

PA4414 Clinical features and functional parameters predict the probability of ACO in patients with asthma and COPD
Giulia Ciardi (Prato (PO), Italy), Chiara Allegreni, Marco Palazzi, Alessio Fabbrizzi, Gianna Camiciottoli

PA4415 Tuberculosis associated Obstructive Lung disease- A Pilot Study
Tarang Kulkarni (Mumbai (Maharashtra), India), Raja Dhar, Beauty Biswas, Sneha Limaye, Alok Ghoshal
PA4416 Evaluation bronchial hyperresponsivness in patients with persistent allergic rhinitis
Dragan Koruga (Novi Sad, Republic of Serbia), Sanja Hromis, Nenad Baletić, Aleksandar Perić

PA4417 Identifying gaps in care: review of bronchiectasis care in a general respiratory unit
Megan Rees (Melbourne (VIC), Australia), Belinda Liu, Natasha Smallwood

PA4418 Correlation between sputum and blood eosinophils in asthmatic and COPD patients with comorbidities.
Patrizia Pignatti (Vigeaio (PV), Italy), Dina Visca, Etienne Lucini, Francesca Cherubino, Elisabetta Zampona, Claudia Celesia, Giovanni Sottgi, Antonio Spannevolo

PA4419 Using fractional exhaled nitric oxide level to differentiate asthma-COPD overlap syndrome from COPD
Fikret Kanat (Konya, Turkey), Volkan Taskin, Mecit Suerdem, Nedim Gurel, Baykal Tulek

PA4420 Romanian awareness and screenings for Obstructive Airway Disease - World Asthma and COPD Day 2017
Ramona Elena Nedelcu (Bucuresti, Romania), Florin Dumitru Mihaltan, Ruxandra Ulmeanu

PA4421 Association between subjective and objective cough assessment - preliminary report
Michał Zieliński (Bytom, Poland), Dariusz Ziora

PA4422 Nasal polyps as possible target to achieve the best biological treatment choice in severe asthma
Manuela Latorre (Pisa (PI), Italy), Veronica Seccia, Maria Laura Bartoli, Lodovica Cristofani-Mencacci, Matteo Bradicich, Marta Maria Daniele, Roberta Del Cesta, Mario Miccoli, Silvana Cianchetti, Elena Bacci, Pierluigi Paggiaro

PA4423 Obstructive sleep apnea as a risk factor for non-asthma control
Fabricio Martins Valois (Sao Luis (MA), Brazil), Maria Do Rosario Da Silva Rams Costa, Brendon Da Silva Santana, Laissone De Moura Feitosa, Ana Beatriz Campelo Campos, Gabriel Matos Machado, Lucas Otoni Lima Rocha, Ithaan Barboza Da Silva, Renato Simões Gaspar

PA4424 Alpha 1-globulin fraction of serum protein electrophoresis for screening and early detection of alpha 1 antitrypsin deficiency
Simone Scarlata (Roma (RM), Italy), Simona Santangelo, Panaiotis Finamore, Gilda Giannunzio, Davide Fontana, Raffaele Antonelli Incalzi

PA4425 Increasing sputum basophils is a marker for eosinophil-dominant airway inflammation in adult asthma
Keiko Wakahara (Nagoya, Japan), Tomoko Nishio, Yoshihiro Suzuki, Suguru Majima, Saya Nakamura, Yoshinori Hasegawa

PA4426 Primary ciliary dyskinesia diagnosis in adult patients with bronchiectasis in Sao Paulo, Brazil.
Mary Anne Kowal Olm (São Paulo (SP), Brazil), Rodrigo Absensur Athanazio, Samia Rachad, Niki Tomas Loges, Heymut Omran, Rafael Stelmach, Paulo H.N. Saldiva, Thais Mauad

PA4427 The nation-wide survey of primary ciliary dyskinesia in Japan
Naouzi Hashimoto (Nagoya, Japan), Yoshinori Hasegawa, Naoto Keicho, Kazuhiko Takeuchi, Makoto Takase, Minako Hijiwata, Akira Ando, Sakae Homma, Naohiko Inase

PA4428 Longitudinal changes in exhaled and nasal nitric oxide in children and young adults with asthma.
Christina Krantz (Uppsala, Sweden), Christer Janson, Kjell Alving, Andrei Malinovschi

PA4429 A comparison of unsupervised methods based on dichotomous data to identify clusters of airways symptoms: latent class analysis and partitioning around medoids methods.
Rita Amaral (Porto, Portugal), Tiago Jacinto, Ana Pereira, Rute Almeida, João Fonseca

PA4430 Comparison of aerosol delivery from two inhaler technique-guidance devices.
Mark Sanders (Harlow (Essex), United Kingdom), Ron Bruin, Cuong Tran

PA4431 Inhaler technique assessments in a real-life cohort of mepolizumab-treated patients
Helle Haagensen Andersen (Brabrand, Denmark), Lene Mølgaard Pedersen, Anne Sofie Bjerrum

PA4432 Poor inhaler technique revealed by investigating different aids in patients with COPD
Karoline Litrup King (Århus N, Denmark), Lotte Hasling Kodbol Jørgensen, Anders Lokke

PA4433 Influence of personal characteristics of patients with bronchial asthma on their medication adherence
Julity M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Larisa V. Bogovin, Tatiana V. Patonkina

TP-26  
Session 447  
12:50 - 14:40

Thematic poster: Clinical and functional monitoring in airway disease

Disease(s) : Airway diseases

Method(s) : Epidemiology  Physiology  General respiratory patient care  Cell and molecular biology
PA4434 Late Breaking Abstract - Effect on asthma control using a novel digital self-management system: a physician blinded randomised controlled cross-over pilot trial
Björn Nordlund (Bromma, Sweden), Anna Carleborg, Henrik Ljungberg

PA4435 Asthma control: how does patient perception relate to ACT and CARAT scores?
Telmo Guerreiro (Moita, Portugal), Inês Barreto, Catarina Teles Martins, Cristina Bárbara

PA4436 Association of the bronchodilator response using different methods: impulse oscilometry vs spirometry.
Idoia Salinas Garrido (Bilbao, Spain), Nuria Marina Malanda, Borja Ortiz De Urbina Antia, Ana Gomez Larrauri, Mikel Santiago Burruchaga, Juan B. Galdiz Iturri

PA4437 Assessment of the bronchodilator response using different methods: impulse oscilometry vs spirometry.
Telmo Guerreiro (Moita, Portugal), Inês Barreto, Catarina Teles Martins, Cristina Bárbara

PA4438 Tachyphylaxis and cough reflex sensitivity
Nicholas James (Cottingham, United Kingdom), Wesley Cheung, Caroline E Wright, Alyn H Morice

PA4439 Methacholine challenge test with impulse oscillometry versus spirometry: which is more sensitive in detecting airway hyper-responsiveness (AHR?)
Akbar Sharifi (Tabriz, Islamic Republic of Iran), Masoud Nazemiyeh

PA4440 Investigation of shortened lung clearance index (LCI) in the Bronch-UK Clinimetrics study.
Katherine O'Neill (Belfast (Belfast), United Kingdom), Gokul R. Lakshmipathy, Curtis Neely, Denise Cosgrove, Kathryn Ferguson, J. D. Chalmers, Mary Carroll, Anthony Desozyza, Timothy Gatheral, A. T. Hill, John, R Hurst, Michael. R Loebinger, J. S. Elborn, Judy M. Bradley

PA4441 Small airway impairment in severe asthmatic patients
Luca Morandi (Ferrara (FE), Italy), Marco Contoli, Federico Bellini, Sara Soave, Giacomo Forini, Giulia Gnesini, Alberto Papi

PA4442 Exhaled breath profiling by electronic nose enabled discrimination of allergic rhinitis and extrinsic asthma.
Silvano Dragonieri (Bari (BA), Italy), Vitaliano Quaranta, Pierluigi Carratu, Teresa Ranieri, Onofrio Resta

PA4443 Electronic monitoring devices: the saviour of poor control in asthma?
Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Wesley Cheung, Caroline E Wright, Alyn H Morice

PA4444 Small airways disease evaluation in patients with mild/moderate asthma and correlation with bronchial hyperresponsiveness and disease control
Maria Kipourou (Thessaloniki, Greece), Pavlos Michailopoulos, Evangelos Ntinapogias, Christoforos Bikas, Georgios Spyropoulos, Konstantinos Kostikas, Stelios Loukides, Konstantinos Katsoulis

PA4445 A correlative analysis between spirometry and MostGraph using the 23306 data from 3979 patients in clinical practice.
Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Kentaro Ito, Kazuki Furuhashi, Yuta Suzuki, Haruko Saiki, Tadashi Sakaguchi, Yoichi Nishii, Osamu Hataji

PA4446 Airway hyperresponsiveness to mannitol is an independent marker of asthma control and disease phenotype
Asger Sverrild (København NV, Denmark), Christian Westergaard, Anna Von Bülow, Pernille Udesen, Simon Francis Thomsen, Vibeke Backer, Celeste Porsbjerg

PA4447 Usefulness of mannitol challenge testing for diagnosing asthma in everyday clinical practice
Charlotte Suppli Ulrik (Virum, Denmark), Signe Knag Pedersen, Amalie Sturis Ustrup, Camilla Boslev Bårnes

PA4448 Earlier use of fractional exhaled Nitric Oxide (FeNO) and challenge testing improves speed and accuracy of asthma diagnosis.
Jill MacLeod (Edinburgh (Edinburgh), United Kingdom), Tracey Bradshaw

PA4449 Multiple Breath Washout (MBW) training, certification and quality control during the iBEST-1 trial in bronchiectasis (BE).
Katherine O'Neill (Belfast (Belfast), United Kingdom), Michael M. Tunney, Gerhild Angyalosi, Charles Haworth, Michael R. Loebinger, Judy M. Bradley, J. Stuart Elborn

PA4450 A novel point of care test for sputum sample stratification prior to the quantitative measurement of active neutrophil elastase
Darragh McCafferty (Belfast (Belfast), United Kingdom), Kelly Moffitt, Charlene Robb, Diane Ramsay, Ashleigh Kennedy, Timothy Ferguson, Brian Walker


**PA4451**  Repeatability of PExA SPA and albumin as small airways dysfunction candidate biomarkers in Asthma.
Marcia Soares (Leicester (Leicestershire), United Kingdom), Hatice Koca, Anna-Carin Olin, Salman Siddiqui

**PA4452**  Evaluating the accuracy of commercially available finger pulse oximeters in a hospital setting
Helen Liddicoat, Rory Mcdermott, Anna Moore

**PA4453**  Fractional exhaled nitric oxide (FeNO) suppression with directly observed inhaled corticosteroid therapy: does it make a difference to patient outcomes?
Shoaib Faruqi (Cottingham, United Kingdom), Joanne Thompson, Terry Robinson, Karen Watkins, Helena Cummings, Nicola Jackson, Anoop Prakash, Michael Crooks

**TP-27**  Session 448  12:50 - 14:40

**Thematic poster: Asthma, rhinitis and COPD: cells, mediators, biomarkers and genetics**

**Diseases(s):**  Airway diseases  Interstitial lung diseases  Respiratory critical care

**Method(s):**  Epidemiology  Public health  General respiratory patient care  Cell and molecular biology

**Chairs:**  Konstantinos Samitas (Athens, Greece), Enrico Marco Heffler (Torino (TO), Italy), Ibon Eguiluz Gracia (Malaga, Spain), Cecilia K. Andersson (London, United Kingdom)

**PA4454**  Red cells distribution width as a potential biomarker in COPD.
Sara Ramponi (Cingia de’ Botti (CR), Italy), Maurizio Marvisi, Laura Balzarini, Chiara Mancini, Chiara Marvisi

**PA4455**  The expression of selected biomarkers at the systemic and local level in patients with COPD
Patrycja Nejman-Gryz (Warszawa, Poland), Magdalena Paplińska-Goryca, Małgorzata Proboszcz, Katarzyna Górka, Marta Maskey-Warzęchowska, Rafał Krenke

**PA4456**  Eosinophils from healthy children (1-3 years) and adults express high levels of prostaglandin D2 receptor 2 (DP2)
Veit Johannes Erpenbeck (Basel, Switzerland), Pamela A Groh, Kristi L Curtsinger, Cross Sarah, Ian Jones, Surendra Machinem, Maciej Cabanski, Alessandra Vitaliti, Ying Pluess-Li, Aurelie Verles, Baskaran Dharmalingam, G K Khurana Hershey

**PA4457**  IDENTIFICATION OF A DISTINCT EOSINOPHIL SUBPOPULATION IN INDUCED SPUTUM FROM ATOPIC ASTHMATICS
Eder Fredy Mateus Medina (Barcelona, Spain), Ruben Osuna Gomez, Cristina Ujaldón Miró, Astrid Crespo Lessman, Alba Garcia Mor, Elena Curto Sánchez, Lorena Soto Retes, Vicente Plaza Moral, David Ramos Barbón

**PA4458**  Eosinophil-derived neurotoxin (EDN) in healthy and asthmatic volunteers
Simon Young (Melbourn, United Kingdom), Bert Rutten, Nisha Kuriyan, Rabia Hidi, Glen Hughes

**PA4459**  Increased sputum B cells in severe eosinophilic asthma: a local auto-inflammatory process
Hai Fang Lim (Singapore, Singapore), Sheau Yng Lim, Manali Mukherjee, Nadia Sunay Tan, Wai Shiu Fred, Veronique Angeli

**PA4460**  Effect of MTHFR C677T polymorphism on allergic airway disease in asthma patients
Marina Lampalo (Zagreb, Croatia), Irena Jukic, Jasna Bingulac-Popovic, Ana Hecimovic, Nikola Ferara, Sanja Popovic-Grle

**PA4461**  19 bp del DHFR POLYMORPHISM IN BRONCHIAL ASTHMA
Margarida Castro (Lisbon, Portugal), Joana Ferreira, Diogo Sarmento, Carla Carvalho, Andrea Matos, Manuel Bicho

**PA4462**  Polymorphism of genes (IL4, IL5) as genetic predisposition to asthma in children
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Marina Smolnikova, Olga Konopleva

**PA4463**  Comparative analysis of the morphological features of the mucous membrane in various clinical forms of rhinitis
Sadyk Gusniev (Moscow, Russian Federation), Tatyana Barkhina, Michail Guschin, Sergey Polner

**PA4464**  Estimation of prevalence of grass pollen sensitization among patients with seasonal allergic rhinitis in Armenia
Irina Morsikyan (Yerevan, Armenia), Armen Nazanyan, Ovsanna Asatryan, Sevan Iritsyan, Artur Shukuryan

**PA4465**  PREVALENCE OF SENSITIZATION TO AVIAN OR FUNGAL PROTEINS IN DIFFERENT WORK ENVIRONMENTS.
Mª Jesus Cruz Carmona (Barcelona, Spain), Tomás Montalvo, Iñigo Ojanuren, Christian Romero-Mesones, María-Dolores Untoria, Silvia Sánchez-Diez, Juan-Carlos Senar, Sandra Franco-Gutiérrez, Victor Peracho-TobeáA, Ferran Morell, Xavier MuñOz

**PA4466**  Penicillium oxalicum, a dominant airborne fungal spore allergen from West Bengal, India
Partha Karak (Kolkata (West Bengal), India), Sharmistha Das, Kashinath Bhattacharya
<table>
<thead>
<tr>
<th>PA4467</th>
<th>Clinical peculiarities of seasonal respiratory allergy in children</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Olena Kuznietsova (Zaporizhzhia, Ukraine), Svitlana Nedelska</td>
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<tr>
<th>PA4468</th>
<th>Peculiarities of cytokine concentration in patients with nasal polyposis and asthmatic triad</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Svetlana Smirnova (Krasnoyarsk, Russian Federation), Anna Lazareva, Oksana Kolenchukova</td>
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<tr>
<th>PA4469</th>
<th>The role of certain regulatory cytokines in the immunopathogenesis of extrinsic allergic alveolitis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gulbahor Fazilova (Samarkand, Uzbekistan), Gulbahor Fazilova, Jamshid Ismailov, Nematilla Aralov</td>
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<tr>
<th>PA4470</th>
<th>Immunological features of active herpessviral infection in bronchial asthma</th>
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<td>Anna Konishcheva (Moscow, Russian Federation), Valentina Gervazieva</td>
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<tr>
<th>PA4471</th>
<th>Serum leptin – is it associated with levels of airway responsiveness?</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Louise Lindhardt Toennesen (Copenhagen, Denmark), Celeste Porsbjerg, Charlotte Suppli Ulrik, Lotte Harmsen, Vibeke Backer</td>
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<tr>
<th>PA4472</th>
<th>The diagnostic value of biomarkers in allergic and non-allergic asthma phenotype</th>
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<td>Marina Lampalo (Zagreb, Croatia), Irena Jukic, Jasna Bingulac-Popovic, Nikola Ferara, Sanja Popovic-Grele</td>
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<th>PA4473</th>
<th>Relationship between HLA-DQA1, -DQB1 gene polymorphism and susceptibility to pollen allergy in Russians</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bella Shamgunova (Astrakhan', Russian Federation), Natalia Astafieva, Ludmila Zaklyakova, Denis Kobzev</td>
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### TP-28  Session 449  12:50 - 14:40

**Thematic poster: Epidemiology of asthma, COPD and factors that associate with lung function**

**Disease(s):** Airway diseases  Interstitial lung diseases  Pulmonary vascular diseases

**Method(s):** Public health  General respiratory patient care  Epidemiology

**Chairs:** Tomas Mikal Lind Eagan (Bergen, Norway), Deborah Jarvis (London, United Kingdom), Linnea Hedman (Luleå, Sweden), Simone Accordini (Verona (VR), Italy)

<table>
<thead>
<tr>
<th>PA4474</th>
<th>Late Breaking Abstract - COPD knowledge in a swiss frail selected population</th>
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<tbody>
<tr>
<td></td>
<td>Gregory Clark (La Chaux-de-Fonds, Switzerland), Marc Marechal, Dominique Monnin</td>
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<tr>
<th>PA4475</th>
<th>Montelukast and the risk of major adverse cardiovascular events – a Danish population-based case-control study</th>
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<td>Daniel Pilsgaard Henriksen (Odense C, Denmark), Jesper Rømhild Davidsen, Christian B. Laursen</td>
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<tr>
<th>PA4476</th>
<th>Changes in asthma drug use in France between 2006 and 2015: a claims data study</th>
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<td>Manon Belhassen (LYON, France), Maeva Nolin, Marine Ginoux, Eric Van Ganse</td>
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<tr>
<th>PA4477</th>
<th>An overview of asthma exacerbation hospital management in Portugal</th>
</tr>
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<tr>
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<td>Lúcia Helena Pires Vicente (Portimão, Portugal), Ana Arrobas, João A Fonseca, Teresa Bandeira, Carla Sofia Loureiro, Claudia Catarina Loureiro, Filipa Todo Bom, Nélia Lima, Carlos Robalo Cordeiro</td>
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<tr>
<th>PA4478</th>
<th>Adherence to inhaled corticosteroids before and after an asthma-related hospitalisation: distinct trajectories</th>
</tr>
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<tr>
<th>PA4479</th>
<th>The simple 10-item PARC tool predicts childhood asthma in an external validation cohort</th>
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<td></td>
<td>Eva Sophie Lunde Pedersen (B ern, Switzerland), Ben D Spycher, Carmen De Jong, Florian Halbeisen, Alban Ramette, Erol A Gaillard, A John Henderson, Raquel Granell, Claudia E Kuehni</td>
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<th>PA4480</th>
<th>Association of household environmental factors and respiratory symptoms in children: a multicentric Italian study</th>
</tr>
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<tbody>
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<td></td>
<td>Marzia Simoni (Pisa (PI), Italy), Sandra Baldacci, Mario Canciani, Carlo Pini, Luigia Maria Brunetti, Luciana Indinnimeo, Paolo Carrer, Annibale Biggieri, Piersante Sestini, Sara Maio, Fabio Bibolla, Gaspare Drago, Silvia Ruggieri, Giovanni Vigili</td>
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<tr>
<th>PA4481</th>
<th>Use of inhaled corticosteroids and the risk of osteoporosis: an international cohort study</th>
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<td></td>
<td>Amelia Grosso (Pavia (PV), Italy), Lucia Cazzoletti, Federica Albicini, Erica Gini, Elisabetta Zanolini, Vanessa Ronzoni, Valentina Conio, Rita Di Domenica, Angelo Guido Corsico, Debbie Jarvis, Christfer Janson, Isa Cerveri</td>
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<th>PA4482</th>
<th>Risk factors of abnormal lung function in children and adolescents – data from the LEAD (Lung, hEart, sociAL, boDy) Study</th>
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<td></td>
<td>Alina Ofenheimer (Wien, Austria), Marie-Kathrin Breyer, Matthias Urban, Sylvia Hartl, Otto Christian Burghuber, Andrea Schrott, Robab Breyer-Kohansal</td>
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<th>PA4483</th>
<th>Mediation analysis of CRP on the association of physical activity with FEV1 and FVC: the ECRHS study.</th>
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<td>Elaine Fuertes (Barcelona, Spain), Anne-Elie Carsin, Vanessa Garcia Larsen, Stefano Guerra, Isabelle Pin, Benedicte Leynaert, Simone Accordini, Jesus Martinez-Moratalla, Josep M Anto, Isabel Urrutia, Audrey Le Gouellec, Joachim Heinrich, Thorarin Gislasön, Rain JöGi, Christfer Janson, Debbie Jarvis, Judith Garcia-Aymerich</td>
</tr>
</tbody>
</table>
PA4484 Mortality rates of COPD Patients in UK Electronic Health Records (Clinical Practice Research Datalink)
Alicia Gayle (London, United Kingdom), Eleanor Axson, Chloe Bloom, Vidya Navaratnam, Jennifer Quint

PA4485 Factors associated with recurrent admissions for bronchiectasis exacerbation in Asians
Isaac Fong (Singapore, Singapore), Anthony Yii, Sandra Hui, Teck Boon Low

PA4486 Exacerbation frequency and eosinophil levels for GOLD C and D COPD patients currently prescribed multiple inhaler triple therapy (MITT)
Victoria Benson (Uxbridge (Middlesex), United Kingdom), James Siddall, Mark Small, Hana Muellerova

PA4487 Prevalence of bronchial asthma and COPD in Baku
Gulzay Aliyeva (Baku, Azerbaijan), Irada Akhundova, Eljan Mammadbayov, Ilgar Mustafayev, Janina Makarova, Averyan Vasylyev, Kamala Suleymanova

PA4488 Different relation between exhaled nitric oxide and lung function with regard to current smoking
Elisabet Nerpin (Falun, Sweden), Debbie Jarvis, Mario Olivier, Thorarinn Gislason, Anna-Carin Olin, Christer Janson, Andrei Malinovschi

PA4489 Endothelial dysfunction is associated with impaired lung function in two independent community cohorts
Andreas Rydell (FALUN, Sweden), Christer Janson, Karin Lisspers, Björn Stålberg, Christoph Nowak, Axel Carlsson, Tobias Feldrein, David Igman, Lars Lind, Johan Årlöv

PA4490 What’s in a postcode? Socioeconomic deprivation in the primary care 2015-17 COPD audit
Philip Stone (London, United Kingdom), Viktoria Mcmillan, Juliana Holzhauer-Barrie, Noel Baxter, C Michael Roberts, Jennifer Quint

PA4491 Respiratory diseases admissions due to the smog episode in Warsaw in January 2017
Artur Badyda (Warszawa, Poland), Piotr Dąbrowiecki, Piotr Oskar Czechowski, Tomasz Owczarek, Andrzej Chciałowski

PA4492 Respiratory disease phenotypes in a general population sample: latent transition analysis
Sara Maio (Pisa (PI), Italy), Salvatore Fasola, Sandra Baldacci, Laura Carrozzi, Francesco Pistelli, Marzia Simoni, Stefania La Grutta, Vito Muggeo, Giovanni Viegi

TP-29 Session 450 12:50 - 14:40
Thematic poster: Respiratory epidemiology: from infectious diseases to lung cancer

Disease(s) : Respiratory infections, Respiratory critical care, Pulmonary vascular diseases, Sleep and breathing disorders, Thoracic oncology, Airway diseases, Respiratory infections
Method(s) : Respiratory intensive care, Epidemiology, Public health, General respiratory patient care
Chairs : Per Sigvald Bakke (Bergen, Norway), Jennifer Quint (Wimbledon, United Kingdom), Giovanni Viegi (Pisa (PI), Italy), Valerie Siroux (La Tronche, France)

Outdoor air pollution and lung function in middle-aged adults of the ELISABET study
Anaïs Havet (Villejuif, France), Sébastien Hulo, Damien Cuny, Florent Occelli, Natalie Cherot-Kornobis, Jonathan Giovannelli, Régis Matran, Philippe Amouyel, Jean-Louis Edmé, Luc Dauchet

Two years’ follow-up with real life quantitative measurement of ambulation under oxygen therapy in patients with chronic respiratory disease (ACTIMETRE study).
Lionel Lerousseau (Antibes Cedex, France), Ari Chaouat, Gilles Jebrak, Alain Palot, Daniel Piperno, Serge Verdier, Gilles Giannoli, Didier Perrin, Eric Leutenegger

Population prevalence of hypercapnic respiratory failure in south-western Sydney, Australia
Yewon Chung (Sydney (NSW), Australia), Frances Louise Garden, Guy Barrington Marks, Hima Vedam

Risk Assessment for Obstructive Sleep Apnea Syndrome and Excessive Daytime Sleepiness in a Greek nursing staff population using the Berlin Questionnaire and Epworth Sleepiness Scale
Sotirios Zarogiannis (Larisa, Greece), Alexia Alexandropoulou, George Vavougiou, Chriissi Hatzioglou, Konstantinos Gourgoulianis

Hospitalizations for pulmonary hypertension in Switzerland 2002-2015
Fabian Aigner (Zürich, Switzerland), Florent Baty, Sebastian Tonko, Otto Dagobert Schoch, Martin Brutsche

Change in age distribution of critically ill patients in an aging society
Song-I Lee (Seoul, Republic of Korea), Chae-Man Lim

A systematic review of comorbidities and outcomes of patients with pleural infection
Maged Hassan (Alexandria, Egypt), Tamsin Cargill, John Corcoran, Elinor Harriss, Rachelle Asciak, Rachel Mercer, Rob Hallifax, Najib Rahman
Survival impact of comorbidity in German Lung Cancer patients - a claims data-based 'Comorbidome'
Larissa Schwarzkopf (Neuherberg, Germany), Monika Murawski

Cardiopulmonary diseases and lung cancer mortality due to PM2.5 exposure in 11 Polish Agglomerations in 2006-2015
Artur Badya (Warszawa, Poland), Piotr Dąbrowiecki

Vaccination rates against pneumococcal and influenza infection in hospitalized cardiologic and pneumologic patients need to be improved.
Elisabeth Smolle (Graz, Austria), Tanja Roebreiter, Holger Flick

Burden of influenza and impact of seasonal vaccination in Europe - a ten year forecast.
Devashri Mukherjee (Bangalore (Karnataka), India), Nicole Zhang, Lade Ayodele

The etiological role of common respiratory viruses in acute respiratory infections in older adults: A systematic review and meta-analysis
Ting Shi (Edinburgh (Edinburgh), United Kingdom)

The prevalence and clinical profile of non-tuberculous mycobacterial pulmonary infection in Singapore
Albert Lim (Singapore, Singapore), Cheryl Khoong, Akash Verma, John Abisheganaden

Etiology of bronchiectasis in Finland
Jarkko Mäntylä (Espoo, Finland), Wiifold Mazur, Arja Viinanen, Minna Purokivi, Paula Kauppi

The incidence of acute respiratory viral infections and pneumonia in the Central administrative district of Moscow.
Tatiana Bilichenko (Moscow, Russian Federation), Maryana Tubekova, Olga Gruzdeva, Larisa Astachova

Lung cancer incidence trends in Croatia: emergency for public health interventions
Marina Polić Vižintin (Zagreb, Croatia), Ingrid Tripković, Suzana Kukulj, Zvonimir ŠOstar

Obstructive Sleep Apnea (OSA) Assessment in the elderly. Preliminary results.
Pierluigi Intiglietta (Bari (BA), Italy), Giulia Gaudioso, Giorgio Castellana, Lorenzo Marra, Giancarlo Logroscino, Onofrio Resta

Childhood TB deaths in a Romanian County, 1998-2015; causes and significance
Adriana Sorete Arbore (Iasi, Romania), Violeta Cojocariu

Smoking and lung cancer in Albania
Daniela Xhemalaj (Tirana, Albania), Perlat Kapisyzi, Hasan Hafizi, Silva Bala, Ilir Peposhi, Marius Krushova, Alma Andoni, Asela Hasa, Elona Hila

Protective effects of nootkatone against particles-induced lung injury caused by diesel exhaust is mediated via the NF-κB pathway
Abderrahim Nemmar (Al-Ain, United Arab Emirates), Suhail Al-Salam, Sumaya Beegam, Priya Yuvaraju, Badreldin H Ali

Seasonal variation of exacerbation and patient-reported outcomes (PROs) in chronic obstructive pulmonary disease (COPD)
Tsung Yu (Tainan, Taiwan), Anja Frei, Gerben Ter Riet, Milo Puhan

Symptoms of moderate exercise in subzero temperatures - An experimental exposure study
Linda Eklund (Spånga, Sweden), Filip Schagatay, Rita Sjöström, Lars Söderström, Helen Hanstock, Thomas Sandström, Nikolai Stenfors

Exposure to air pollution and incidence of pneumothorax
Maher Maoua (Sousse, Tunisia), Haifa Arouti, Sana Aissa, Asma Chouchane, Mariem Hafisia, Kacem Imen, Sana El Guedri, Aicha Brahem, Houda Kalboussi, Olfa Elmaaleel, Souheil Chatti, Ahmed Abdelghani, Mohamed Benzarti, Najib Mrizek

TP-30 Session 451 12:50 - 14:40
Thematic poster: Occupational and environmental lung diseases: inhaled air quality and health effects

Disease(s): Airway diseases, Respiratory infections, Respiratory critical care, Interstitial lung diseases, Respiratory infections

Method(s): Physiology, Public health, Epidemiology, General respiratory patient care, Imaging

Chairs: Holger Dressel (Zürich, Switzerland), Paul Cullinan (London, United Kingdom), Ruth Wiggans (Manchester (Greater Manchester), United Kingdom), Denis Charpin (Marseille Cedex 20, France)

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Biomass smoke exposure and respiratory health in Madagascar
Rondro-Nirina Raharimanana (Majunga 40, Madagascar), Andrianandrasana Herizo Rajaonary, Daniella Randriamanana, Jocelyn Rakotomiazao, Joelsson Rakotason, Michel Tiaray Harison, Njaka Andriamahenina, Ange Andrianarisoa, Andrianavivo Rakison, Denis Charpin, Brigitte Raheloelina, Jean De Dieu Marie Rakotomanga, Pierre L’Her, Jean-Marie Tschopp, Raelolina Andriambololona, Chantal Raherison-Semjen

Influence of the duration of working in a textile factory on respiratory functions and sleep quality
Buse Sortoglu (İstanbul, Turkey), Irem Kurt, Semiramis Özyılmaz, Ertuğrul Safran, Hülya Nilgün Gürses

Seasonality of Pulmonary Tuberculosis in Sousse (Tunisia): Analysis of time series
Aissa Sana (Sousse, Tunisia), Maoua Maher, Sfaxi Raoudha, Benzarti Wafa, Gargouri Imen, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Mrizek Nejib, Benzarti Mohamed

Profile of high altitude pulmonary edema (HAPO) among young healthy inductees.
Mahaveera Bnbm Prasad (Bengalure (Karnataka State), India)

Periodic workplace screenings: Are pulmonary function tests performed with right technique?
Peri Meram Arbak (Düzce, Turkey), Ipek Ozmen, Savaş Kanbur, Elif Yıldırım, Reyhan Yıldız, Birsen Ocaklı

Socioeconomic and quality of life impact of work-related asthma in São Paulo, Brazil
Lavinia Clara Del Roio (São Paulo (SP), Brazil), Mario Terra-Filho, Ubiratan Paula Santos

Exposure-response relations in occupational rhinitis in textile workers: time of onset.
Maher Maoua (Sousse, Tunisia), Houda Rouis, Ahmed Abdelghani, Sana Aissa, Sana Guedri, Imene Kacem, Aicha Brahah, Houda Kalboussi, Olfa Elmaalel, Souhail Chatte, Nejib Mrizak

Worker in a tatami factory: Case report of asthma in a complex and multiple occupational exposure
Daniel Bruno Takizawa (Sao Paulo (SP), Brazil), Philippe Colares, Gabriela Lins Medeiros De Assunção, Elisa Maria Siqueira Lombardi, Rafael Futushi Mizutani, Gustavo Faisbischew Prado, Mario Terra-Filho, Ubiratan De Paula Santos

Long-term respiratory effects of exposure to welding fumes: Quebec apprentice cohort study
Eva Suarthana (Montréal (Québec), Canada), Meschack Achore, Mahsa Taghiakbari, Catherine Lemiere, Mounia Rhazi, Denysse Gauvin, Mariam El-Zein

AVERAGE OF POLISH PULMONOLOGISTS ABOUT THE IMPACT OF AIR POLLUTION ON HEALTH
Tadeusz Zielonka (Warsaw, Poland)

Influence of Smoking, Environmental Factors and Life Style on Lung Function in a Large German Cohort
Rainer G. Wiewrodt (Münster, Germany), Bianca Höpfner, Charlotte Aries, Lars Henning Schmidt, Arik Bernard Schulze, Karlheinz Blackert, Marion Wencker, Felix J. Herth

Tapioca starch powder as a new cause of occupational asthma in bakers
Ruth Wiggans (Manchester (Greater Manchester), United Kingdom), Joan Pilling, Jennifer Hoyle

Risk factors of respiratory symptoms in urban Pakistani population
Irfan Muhammad (Karachi, Pakistan), zohaib akhter, Asaad Ahmed Nafees, Unai Rabbani, Shama Razzaq

The 6-minute walk test as a prognostic marker in patients with silicosis
Victoria Arnalich Montiel (Vigo, Spain), Jose Alberto Fernandez Villar, Jose Jesus Blanco Perez
Prospective survey referring to the smoking habits among high school students in Plovdiv, Bulgaria (2004-2010-2016)
Filip Shterev (Plovdiv, Bulgaria), Zlatka Iankova, Ivan Novakov, Nonka Mateva

Smoking behaviour and age
Elif Şen (Ankara, Turkey), Fatma Çiftci, Sumeyye Ayoz, Dursun Baygul, Zeynep Pınar Onen

Smoking in a tertiary hospital
Virginia Almadana Pacheco (Sevilla, Spain), Jose Antonio Delgado, Sindy Berenice Cedeño, Pedro Rodriguez, Soledad Monserrat, Agustín Valido

Exclusive e-cigarette use among Parisian school students
Bertrand Dautzenberg (Paris, France), Hugo Torregrossa, Maria Melchior, Nicole Rieu, Pierre Birkui, Murielle Mary-Krause, Marie-Dominique Dautzenberg

An observational study of the use and knowledge about e-cigarettes in young Greek adults
Athanasia Patakа (Thessaloniki, Greece), Serafim Chrysovalantis Kotoulas, Evangelia Panagiotidou, Evangelos Chatzopoulos, Panagiotis Kosmoliaptsis, Areti Katsouda, Kyriaki – Rafailia Kavazidi, Niki Mpatou, Emiliza Stefanidou, Paraskevi Argyropoulou

The prevalence of e-cigarette and cigarette smoking among students in Central and Eastern Europe - preliminary results of YUPESS study
Grzegorz Brozek (Katowice, Poland), Mateusz Jankowski, Andrei Shpakou, Michal Poznanski, Ludmila Klismackaya, Jelena Loginovic, Justina Gereova, Marta Rachel, Ihar Naumau, Kamil Kornicki, Zuzana Kristufkova, Krzysztof Bielewicz, Jan Zejda

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Prevalence, views and experience of e-cigarette use by COPD patients in The Birmingham COPD Cohort
Matthew Swallow (Birmingham, United Kingdom), Amanda Farley, Rachel Jordan, Alexandra Enocson, Andy Dickens, David Fitzmaurice, Peymane Adab

Prevalence and knowledge about smoking among teachers in Romania
Doina Adina Todea (Cluj-Napoca (Cluj), Romania), Eugenia Corina Budin, Corina Marginean

Electronic cigarette and quit smoking quest in Twitter: Preliminary study
Mehmet Atilla Uysal (Istanbul, Turkey), Aslı Carkoglu, Ahmet Kurnaz

Digital epidemiology: Can Google trends give some information about electronic cigarette usage in Turkey?
Mehmet Atilla Uysal (Istanbul, Turkey), Yelda Nıksarlıoglu, Aslı Carkoglu, Omer Uysal, Ali Cevat Kuthuk, Bülent Karadag

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Documentation of electronic nicotine delivery systems (ENDS) in medically admitted patients in Connolly Hospital Dublin.
Fiona O'Driscoll, Shahzad Ahmed, Waheed Shah, Professor John Faul, Connolly Hospital, Dublin, Dublin.
Waheed Shah (Dublin 11, Ireland), Fiona O'Driscoll, Shahzad Ahmed, John Faul

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New era of smoking: Young peoples perceptions of emerging tobacco products.
Jack Bozier (Glebe, Australia), Juliet Foster, Brian Oliver

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<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Sleep and breathing disorders</th>
<th>Airway diseases</th>
<th>Interstitial lung diseases</th>
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<td>Method(s)</td>
<td>Epidemiology</td>
<td>Imaging</td>
<td>General respiratory patient care</td>
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<td>Chairs</td>
<td>Nicole Beydon (Paris, France), Melania Evangelisti (Roma (RM), Italy), Jenny Hallberg (Stockholm, Sweden), Kathryn Ramsey (Bern, Switzerland)</td>
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| PA4572 Forced Expiratory Flows and Volumes in a Swedish Cohort of Healthy Term Infants | Parakivi Kosma (Sundbyberg, Sweden), Charlotte Palme-Kilander, Matteo Bottai, Henrik Ljungberg, Jenny Hallberg |
| PA4573 Comparison of bronchodilator responsiveness between forced oscillation technique and spirometry | Eero Lauhkonen (Tampere, Finland), Eero Lauhkonen, Sindhu Sivagnanasithiyar, Georgios Kaltsakas, Richard Iles |

| PA4574 Detection of heterogenous lung emptying by shape of forced expiratory flow-volume curve in asthmatic children | David Richard (Nancy, France), Sabrina Khelif, Stéphanie Metche, Aurelie Tapatopoulou, Sébastien Kiefer, Claude Bonabel, Cyril Schweitzer, François Marchal, Silvia Demoulin-Alexikova, Iulia Ioan |
| PA4575 Pulmonary Function in Young Instrument Players | Elpida Hatziagorou (Thessaloniki, Greece), Akaterini Koust, Alexandra Hristara – Papadopoulou, John Tsanakas |

| PA4576 Reference values of impulse oscillometry and their correlation with predictors in healthy Turkish preschool children | Zeynep Seda Uyan (Istanbul, Turkey), Ilkay Er, Ayla Gunlemez, Canan Baydemir, Fatih Kilicbay, Refika Ersu |
| PA4577 Global Lung function Initiative (GLI) prediction equations fit the normal lung function in Bulgarian and Romany children | Stoilka Koleva Mandadzhieva (Plovdiv, Bulgaria), Blagoi Marinov, Stefan Kostianev |
| PA4578 Longitudinal assessment of lung function in patients with pectus excavatum (PE)> | Daniel Trachsel (Basel, Switzerland), Emanuela Zannin, Raftaile Dellacá, Frank Martin Haecker, Thierry De Trey |

| PA4579 Respiratory function in adolescents with idiopathic disorders of the spinal column. | Athina Papadopoulou (Athens, Greece), Katerina Mikelatou, Achileas Boutis, Emmanouil Tsafantakis, Despina-Zoe Mermiri |
| PA4580 Assessment of respiratory function in adolescents with idiopathic scoliosis treated with brace. | Athina Papadopoulou (Athens, Greece), Katerina Mikelatou, Achileas Boutis, Emmanouil Tsafantakis, Despina-Zoe Mermiri |

| PA4581 Exercise may improve airway clearance and alleviate hyperinflation in children with Cystic Fibrosis | Kate H Regan (Edinburgh (Edinburgh), United Kingdom), Sarah Blacklock, Donald Urquhart |
| PA4582 Short- and mid-term reproducibility of lung clearance index in children with cystic fibrosis and healthy controls | Bettina Sarah Frauchiger (Bern, Switzerland), Sylvia Nyilas, Kathryn Ramsey, Philipp Latzin, Sophie Yammie |
| PA4583 Normative data for the new setup of the SF6 multiple-breath washout in unedated infants | Johanna Manuela Kurz (Bern, Switzerland), Andreas Laszlo Sibo, Bettina Sarah Frauchiger, Insa Korten, Pinelopi Anagnostopoulou, Kathryn Ramsey, Philipp Latzin |
| PA4584 A transition evening is a popular and effective way to deliver high quality transition in respiratory paediatrics | Alison Scott (Tadcaster, United Kingdom), Emma Sheppard, Nichola Butler, Anita Critchlow |
| PA4585 Measures of nocturnal oxyhemoglobin desaturation in children with obstructive lung disease or sleep-disordered breathing | Athanasios G. Kaditis (Athens, Greece), Georgia Katsoul, Anastasia Polytarchou, Marina Tsoussoglou, Polytimi Panaghiotopoulou-Gartagani |
| PA4586 Sleep clinical record and polysomnography scores in adolescents with sleep disordered breathing | Melanie Evangelisti (Roma (RM), Italy), Martina Forlani, Marco De Pozzo, Maria Elena Liverani, Maria Pia Villa |
| PA4587 Unsupervised polysomnography in children: a technical and economic study | Silke Anna Theresa Weber (Botucatu (SP), Brazil), Iury Lima, José Vicente Tagliarini |
| PA4588 Assessment of Signal Integrity in Paediatric Cardiorespiratory Sleep Studies | Ansel Godinho (London, United Kingdom), Kylie Russo, Aidan Laverty, Martin Samuels, Francois Abel |
| PA4589 Obstructive Sleep Apnea syndrome (OSAS): A threatening ghost for β Thalassemia Major Children | Luci Suliman (Mansoura, Egypt), Suzy Abdelmabood |
| PA4590 Retrospective analysis of sleep breathing disorders in mucopolysaccharidosis type IVA | Giulia Facchina (Caorle (VE), Italy), Alessandro Amaddeo, Sonia Khirani, Genevieve Baujat, Syril James, Sylvain Breton, Brigitte Faucharx |
TP-34
Session 455 12:50 - 14:40

Thematic poster: Paediatric asthma: new insights in its prevalence, treatment and treatment failure

**Disease(s):** Sleep and breathing disorders, Airway diseases

**Method(s):** Public health, Epidemiology, General respiratory patient care

**Chairs:** Giorgio Piacentini (Verona (VR), Italy), Thomas Janssens (Leuven, Belgium), Giuseppe Fabio Parisi (Catania (CT), Italy), Theofilos Polychronakis (Cambridge (Cambridgeshire), United Kingdom)

**PA4591**
Results of nocturnal oximetry in native and non-native children and adolescents residents at 2,418 m.
Juan Carrillo Azocar (Santiago, Chile), Manuel Vargas, Pablo Vargas, Khanty Loyola

**PA4592**
Late Breaking Abstract - What do children, parents and paediatricians feel about the risk of growth suppression of inhaled corticosteroids?
Ole D. Wolthers (Randers, Denmark)

**PA4593**
Late Breaking Abstract - Effect of supplementation with vitamin D on acute bronchitis prevention during the first year of life
Antonio Moreno Galdo (Sant Cugat del Vallès (Barcelona), Spain), Ana Lopez De Aguilera, Pilar Terradas Mercader, Assumpció Clopes Estela, Maria Inmaculada Merino Marcos, Javier Korta Murua, Maite Labiano Ascunce, Maria Rosa Pique Alejandre, Juliana Carmen Trifu, Pilar Suhe Martín, Roser Ferrer Costa, Anna García Sangenis, Rosa Morros Pedros, Antonio Carrascosa Lezcano, Ines De Mir Messa

**PA4594**
An exploratory questionnaire to assess the confidence levels of practice nurses when managing asthma in children within local General Practices
Anita Critchlow (Hope Valley (South Yorkshire), United Kingdom), Elphick Heather

**PA4595**
Improving Paediatric asthma care - a one stop nurse led approach
Sally Hails (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Samantha Moss, Jen Townshend

**PA4596**
Can exposure to nitrogen dioxide concentration be reduced by a simple action plan?
Lee Koh (London, United Kingdom), Steve Cunningham, Jonathan Grigg

**PA4597**
Acute childhood asthma significance from health care workers’ and caregivers’ perspective in a low resource setting: a qualitative study.
Cristina Ardura-García (Madrid, Spain), Philip Cooper, John Blakey, Natalia Romero-Sandoval

**PA4598**
Physical activity in 6 to 17 years old children with controlled asthma in a pediatric pulmonology tertiary center.
Cyril Schweitzer (Vandoeuvre-Les-Nancy, France), Mériyl Simermann, Maud André, Aurore Blondé, Stéphanie Metche, Sébastien Kiefer, Iulia Ioan, Silvia Demoulin-Alexikova, Aurélie Tatopoulou

**PA4599**
Efficiency of physiotherapy with Caycedian Sophrology on children with asthma: a randomized controlled trial.
Anne Requirand (CARNON, France), Huguette Romieu, Francois Charbonnier, Dora Janka, Aymeric Douillard, Valerie Macioce, Kathleen Lavastre, Hamouda Abassi, Marie-Catherine Renoux, Thibault Mura, Pascal Amedro

**PA4600**
Home monitoring of asthmatic children with connected sensors
Nico Willard (Eindhoven, Netherlands), Bert Den Brinker, Marian Dekker, Daniele De Massari, Mareike Klee, Fik Van Lint

**PA4601**
Usefulness of portable spirometry in addition to clinical asthma control score (C-ACT) in atopic children before performing an oral food challenge.
Mathilde Jouget (NANCY, France), Cyril SCHWEITZER, Silvia Demoulin-Alexikova, Amandine Luc, Iulia Ioan, Pascale Dumond, Amandine Divaret-Chauveau

**PA4602**
Childhood asthma control and compliance with respect to parental concerns about treatment
Elif Dagli (Istanbul, Turkey), Miray Kosten, Gamze Gul, Hazal Gul Yesil, Merve Gul, Mina Gholami Baroughi

**PA4603**
The association of physical activity and sedentary lifestyle with asthma in childhood
Emilija Vlashki (Skopje, FYROM (Macedonia)), Valentina Cvejoska Cholakovska, Mica Kimovska, Lidija Seekova, Tara Ristevska, Joshua Lawson

**PA4604**
‘In Control’ - changing asthma attitudes in adolescents through drama
Gioia Mosler (London, United Kingdom), Katherine Harris, Jonathan Grigg

**PA4606**
Patient engagement in a paediatric difficult asthma clinic.
Sonal Kansra (Sheffield (South Yorkshire), United Kingdom), Simon Gosling

**PA4607**
Validation of the Pediatric Asthma Caregiver Quality of Life Questionnaire (PACQLQ) in young Argentinean children
Luciano Enrique Busi (Trelew (Chubut), Argentina), Valeria Bonamino, Peter David Sly
### Thematic poster: Cystic fibrosis in paediatric patients: current research

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections  
**Method(s):** Cell and molecular biology, Physiology, Epidemiology, General respiratory patient care  
**Chairs:** Marcus Mall (Berlin, Germany), Nicolas Regamey (Lucerne, Switzerland), Lutz Naehrl ich (Erlangen, Germany), Anna Shawcross (Manchester (Greater Manchester), United Kingdom)

#### In vitro activity of colistin in combination with N-acetylcysteine against Pseudomonas aeruginosa
Lucia Pallecchi (COLLE DI VAL D'ELSA (SI), Italy), Simona Pollini, Tiziana Di Maggio, Daniela Girelli, Antonio Teri, Lisa Cariani, Stefano Aliberti, Francesco Blasi, Francesco Sergio, Gian Maria Rossolini

#### Exhaled breath analysis by ion mobility spectrometry in children with asthma and cystic fibrosis
Michiel Bannier (Maastricht, Netherlands), Kim Van De Kant, Jorg Baumbach, Quirijn Jobsis, Edward Dompeling, Sandra Barnowski (sandra.barnowski@dbmr.unibe.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern), Andrea Stokes (Andrea.Stokes@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern), Thomas Geiser (Thomas.Geiser@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern), Lars Knudsen (knudsen.lars@mh-hannover.de / Functional and Applied Anatomy Medical School Hannover,Hannover), Manuel Funke-Chambour (Manuela.Funke-Chambour@insel.ch / Department for Biomedical Research, Bern University Hospital, Bern, CH,Bern)

#### Antibodies against Pseudomonas aeruginosa in patients with cystic fibrosis – clinical application
Snezhina Lazova (Sofia, Bulgaria), Guergana Petrova, Penka Perenovska, Spaska Lesichkova, Dimitrinka Miteva, Kristina Cholakova, Tanya Strateva

#### Induction of innate immune response in fresh human lung tissue ex vivo following P. aeruginosa infection
Sabine Wronska (Hannover, Germany), Laura Mueller, Nadine Kraemer, Peter Braubach, Danny Jonigk, Hans-Gerd Fieguth, Olaf Pfennig, Claus Bersch, Armin Braun, Katherina Sewald

#### Association of HLA-DR alleles with pulmonary cystic fibrosis
Esmaili Mortaz (Tehran, Islamic Republic of Iran), Alireza Asef, Hossein Ali Ghaffaripour, Ian Adcock

#### Effectiveness of mechanical insufflation-exsufflation device in pediatric patients with cystic fibrosis
Atefeh Fakharian (Tehran, Islamic Republic of Iran), Saba Karimzade, Mohsen Abedi, Shahram Karhbian Masouleh, Leilkan Shordel, Soheila Khalilzadeh

#### Oxygen uptake kinetics in walking children with cystic fibrosis
Yann Combret (Rouen, France), Clément Médralin, Guillaume Prieur, Aurora Robledo Quesada, Pascal Le Roux, Grégory Reychler

#### Home monitoring of respiratory rate from pulse oximetry in children with cystic fibrosis
Paul Seddon (West Sussex, United Kingdom), David Wertheim, Cathy Olden, Liz Symes, Claire Edmondson, Jane Davies, Keith Brownlee

#### Evaluation of user behaviour with an Oscillating Positive Expiratory Pressure (OPEP) device in paediatric cystic fibrosis patients.
Kevin J. O'Sullivan (Limerick, Ireland), Leonard O'Sullivan, Colum Dunne, Deirdre Meagher, Barry Linnane

#### What is a NICE definition of lung disease in patients with Cystic Fibrosis and its impact on treatment?
Georgina Dick (Essex, United Kingdom), Stephen J Bourke, Carlos Echevarria, Simon J Doe

#### Comparative Evaluation of Clinical, Spiro/Oscillometric and Tomographic Parameters As A Global Assessment of Children With Cystic Fibrosis
Ozge Yilmaz (Manisa, Turkey), Esra Toprak Kanik, Ali Kanik, Ece Ozdoug, Yurda Simsek, Hudaver Alper, Hasan Yuksel

#### The effect of spirometry on multiple breath washout outcomes in children with cystic fibrosis
Jacky Wai Yeung Au (Toronto (ON), Canada), Reginald Mcdonald, Sanja Stanjevic, Felix Ratjen
**PA4624** Does the lung clearance index track from preschool to school age in children with cystic fibrosis?
Michelle Klingel (Toronto (ON), Canada), Sarah Isaac, Sanja Stanojevic, Renee Jensen, Melinda Solomon, Hartmut Grasemann, Valerie Waters, Neil Sweezey, Stephanie Davis, Felix Ratjen

**PA4625** Does physiotherapy affect Lung Clearance Index in Cystic Fibrosis patients?
Fotios Kirvassilis (Oraiokastro, Greece), Elpis Hatziaiorgou, Eleana Kouroukl, Maria Parisi, Pavlina Peftoulidou, Isaia – Christina Mouratidou, John Tsanakas

**PA4626** A music therapy intervention as an adjunct to chest physiotherapy in children with cystic fibrosis
Javier Perez Frias (Malaga, Spain), Alberto Montero-Ruíz, Laura A. Fuentes Galvez, Estela Perez-Ruíz, M. Paz Díaz Huelamo, Elisa Martin-Montañéz

**PA4627** Early renal involvement in children with cystic fibrosis.
Walaa Shahin (Giza, Egypt), Ahmed Badr, Walaa Rabie, Rawdah Ahmed, Mona Mohsen, Mona El-Falaki

**PA4628** Newborn Screening for Cystic Fibrosis in Wales over 20 years. Changes in incidence dependent on screening protocol
Chris Course (Cardiff, United Kingdom), Iolo J.M. Doull, Ruth Hanks, Stuart Moat

**PA4629** Newborn screening for Cystic Fibrosis over 20 years and the identification of affected not detected infants.
Ruth Hanks (Vale of Glamorgan, United Kingdom), Iolo J.M. Doull, Christopher Course, Stuart Moat

**TP-36** Session 457 12:50 - 14:40

**Thematic poster: Paediatric respiratory infections: mechanistic insights and clinical outcomes**

**Diseases:** Respiratory infections, Airway diseases, Interstitial lung disease, Respiratory infections

**Methods:** Respiratory intensive care, Physiology, Epidemiology, General respiratory patient care, Cell and molecular biology, Public health

**Chairs:** Ahmad Kantar (Bergamo (BG), Italy), Mark Everard (Perth (WA), Australia), Evelien R. van Meel (Rotterdam, Netherlands), Giulia Cangiano (Verona (VR), Italy)

**PA4631** Late Breaking Abstract - Presence of coinfection is associated with a longer hospital stay in children with laboratory -confirmed pertussis
wang yuqing (Suzhou, China)

**PA4632** Investigating the mechanisms of Bordetella pertussis-induced airway inflammation.
Giorgio Fedele (Rome, Italy), Ilaria Schiavoni, Pasqualina Leone

**PA4633** Molecular characterisation and clinical presentation of Mycoplasma pneumoniae lower respiratory tract infections in children
Jasna Rodman Berlot (Ljubljana, Slovenia), Darja Keše, Marina Praprotnik, Tatjana Mrvič, Rok Kogoj, Uroš Krivec

**PA4634** The influence of modern microbiological methods on the antibiotic treatment of pneumonia in children
Vojko Berce (Murska Sobota, Slovenia), Maja Tomazin, Brigit Koren, Barbara Lovrencic

**PA4635** Intrapleural use of dornase alfa and tissue plasminogen activator are successful as treatment in pediatric empyema: a pilot study
Monique Slaets (Edegem (Antwerp), Belgium), Jozef De Dooy, Patrick Lauwers, Paul Van Schil, Stijn Verhulst, Jeroen Hendriks

**PA4636** Inhibitory effect of naringenin in airway mucus hypersecretion and the possible mechanism
Xiaoguang Hu (Wenzhou (Zhejiang), China), Hai Lin Zhang, Shan-Shan Meng, Fang-Fang Lv, Li Lin

**PA4637** Cytokines profile in RSV infection according to nutritional status.
Loreto Fuenzalida (santiago, Chile), Guiselle Arias, Jaime Inostroza, Diego García-Diaz, Gustavo Valderrama

**PA4638** The role of innate lymphoid cells in early life lung infection
Dawid Swieboda (London, United Kingdom), Ryan Thwaites, Simon Nadel, Trevor Hansel, Peter Openshaw, Fiona Culley

**PA4639** Chitinase 3-like 1 protein plays a critical role in RSV-induced airway inflammation
Myunghyun Sohn (Seoul, Republic of Korea), Minjung Kim, Doohée Shim, Jaemyun Lee

**PA4640** Differences between innate response in children with bronchiolitis versus recurrent wheezing.

**PA4641** Bronchiolitis under 6 months of age: time for changing definition?
Laura Petrarca (Roma (RM), Italy), Raffaella Nenna, Antonella Frassanito, Alessandra Piarangi, Greta Di Mattia, Carolina Scagnolari, Chiara Urbano, Marianna Di Martino, Domenico La Regina, Vincenzo Ferraro, Fabio Midulla
PA4642 A phase-III multicenter, randomized, double-blind, controlled trial of high-dose inhaled nitric oxide in infants with acute bronchiolitis.
Aviv Goldbart (Beer Sheva, Israel), Inbal Golan-Tripto, Giora Pillar, Galit Levnat-Levanon, Ori Efrati, Ronen Spiegel, Romit Lubetzky, Moran Lavie, Lior Carmon, Mark Mizrahi, Amit Nachum

PA4643 Inhaled fraction and granulometry of hypertonic saline solution Aerosol for the ambulatory management of newborn babies with viral bronchiolitis: size matters.
Matthieu BREMOND (TOURS, France)

PA4644 Respiratory readmission rates differ in the year following hospitalisation with RSV and non-RSV bronchiolitis
Gemma Saint (Liverpool (Merseyside), United Kingdom), Brian Flanagan, Paul McNamara

PA4645 Rhinovirus-induced wheezing in children with family history of asthma
Snezhina Lazova (Sofia, Bulgaria), Sirma Mileva, Milena Yakova, Snejana Michailova

PA4646 Bronchiolitis: 5 years of follow-up
Antonella Frassanito (Roma (RM), Italy), Raffaella Nenna, Laura Petrarca, Greta Di Mattia, Alessandra Pierangelini, Carolina Scagnolari, Flaminia Ravà, Sabrina Fioroni, Erika Marchionne, Benedetta Foti, Giulia Lais, Fabio Midulla

PA4647 Respiratory Illness and Respiratory Syncytial Virus (RSV)-Related Hospitalization (RSVH) in Infants with a Tracheostomy (Tr) in the CARESS Registry (2005-2016)
Ian Mitchell (Calgary (AB), Canada), Mahweesh Saleem, Kelly Kim, Paes Bosco, Krista Lanctot

PA4648 The effect of ambient air pollution on the risk of hospitalisation with bronchiolitis in infants: A systematic review.
Charlotte King (London, United Kingdom), Daniel Hawcutt, Jamie Kirkham, Ian Sinha

PA4649 Calprotectin as new sensitive marker of neutrophilic inflammation in patients with bronchiolitis obliterans
Silvia Jerkic (Frankfurt, Germany), Felix Michel, Annalena Kochems, Ralf Schubert, Martin Rosewich, Stefan Zielen

TP-37 Session 458 12:50 - 14:40
Thematic poster: Neonatology and paediatric intensive care

Disease(s): Respiratory critical care Respiratory infections Airway diseases Respiratory infections
Method(s): Imaging Surgery General respiratory patient care Epidemiology Physiology Respiratory intensive care

Chairs: Anna Lavizzari (Milano (MI), Italy), Sanja Zivanovic (London, United Kingdom), Laura Moschino (Padova (PD), Italy), Katie Hunt (London, United Kingdom)

PA4650 Pulmonary microbes identified by 16S sequencing of tracheal aspirate samples in two neonatal units in the UK
David Gallacher (Cardiff (South Glamorgan), United Kingdom), Dagmar Alber, Grace Logan, Nigel Klein, Richard Wach, Julian Marchesi, Sailesh Kotecha

PA4651 Clinical outcome of antenatally detected congenital lung malformations: a non-operative approach.
Colin Robertson (Melbourne (VIC), Australia), Andrew Law, Michelle Fink, Joe Crameri

PA4652 Influence of gender on lung function in prematurely born young people
Christopher Harris (London, United Kingdom), Alan Lunt, Janet Peacock, Anne Greenough

PA4653 Anatomical and alveolar dead space in mechanically ventilated newborn infants
Theodore Dassios (Beckenham (Kent), United Kingdom), Paul Dixon, Ann Hickey, Sotrios Fouzas, Anne Greenough

PA4654 Long term respiratory and developmental outcomes of children with absent pulmonary valve syndrome
Elizabeth Brettie (Birmingham, United Kingdom), Katalin Torok, Tarak Desai, Isobel Brookes, Priti Kenia, Satish Rao, Anna Scale, Prasad Nagakumar

PA4655 Albuterol delivery by soft mist and pressurized metered dose inhalers during noninvasive ventilation in a model of a spontaneously breathing child
Ariel Berlinski (Little Rock, United States of America), Jeanne Velasco

PA4656 Physical activity and body composition in Norwegian children born extremely preterm
Mette Engan (Bergen, Norway), Maria Vollseter, Thomas Halvorsen, Hege Clemm

PA4657 Early life lung microbiome in preterm infants
David Gallacher (Cardiff (South Glamorgan), United Kingdom), Dagmar Alber, Grace Logan, Nigel Klein, Julian Marchesi, Sailesh Kotecha

PA4658 Multiple breath washout is not useful in infants with bronchopulmonary dysplasia
Nilay Bas Ikizoglu (Istanbul, Turkey), Laura De Jong, Bulent Karadag, Irwin Reiss, Liesbeth Duijts, Andre Kroon, Esther Van Mastroigt, Harm Tiddens, Refika Ersu, Marielle Pijnenburg
Bronchodilator response in school-aged preterm-born children who had chronic lung disease in infancy
Kylie Hart (Cardiff, United Kingdom), Michael Cousins, Louise Yendle, Gillian Willetts, Iolo Doull, Mark Williams, Sarah Kotecha, John Henderson, Sailesh Kotecha

Fractional exhaled nitric oxide concentration in school-aged children born who had chronic lung disease in infancy
Kylie Hart (Cardiff, United Kingdom), Michael Cousins, Gillian Willetts, Louise Yendle, Iolo Doull, John Henderson, Sailesh Kotecha

Long Term Home Oxygen Therapy for Chronic Neonatal Lung Disease: A four year Service Evaluation at Sheffield Children's Hospital
Anne Bean (York (North Yorkshire), United Kingdom), Sonal Kansra, Julie Bell

Acinetobacter baumannii infection and colonization among pediatric patients in pediatric ICU and other ICUs
BEOM JOON KIM (Suwon-si, Republic of Korea), Woo Ri Bae, Kyunghoon Kim, Hwan Soo Kim, Yoon Hong Chun, Jong-Seo Yoon, Hwan Hee Kim, Jin Tack Kim

Work of breathing at different levels of volume-targeted ventilation in infants with congenital diaphragmatic hernia
Katie Hunt (London, United Kingdom), Theodore Dassios, Kamal Ali, Anne Greenough

Individualised dietary treatment of congenital chylothorax
Louisa Whitfield-Brown (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Samantha Moss

Caucasian small for gestational age infants with bronchopulmonary dysplasia require longer, and more intensive treatment for their disease than appropriate for gestational age, and non-Caucasian counterparts.
Eleanor Grimley (Nottingham, United Kingdom), Andrew P Prayle, Matthew Hurley, Sarah Spencer, Dushyant Batra, Jayesh M. Bhatt

Lung clearance index and exercise capacity among children and adolescents survivors of bronchopulmonary dysplasia
Elpida Hatziagorou (Thessaloniki, Greece), Eleana Kouroukli, Kosmas Sarafidis, John Tsanakas

Motile cilia structure and function in patients with mutations in the outer dynein arm heavy chain DNAH9
Amelia Shoemark (Dundee (Angus), United Kingdom), Mahmoud R Fassad, Farheen Daudvohra, Tom Burgoyne, Robert A Hirst, Joe Hayes, Melissa Dixson, Andrew Rogers, Micheal Loebinger, Christopher O'Callaghan, Claire Hogg, Hannah Mitchison

Does nasal rinsing reduce the need for repeat nasal brushing biopsies in a primary ciliary dyskinesia (PCD) diagnostic service? A pilot study.
Amanda Harris (Southampton (Hampshire), United Kingdom), Victoria Keenan, Amanda Friend, Hannah Wilkins, Bruna Rubbo, Claire Jackson, Janice Coles, James Thompson, Samantha Packham, Emma Macleod, Esther Nymbi, Woolf Walker, Jane Lucas, Hazel Evans

Comparison of diagnostic accuracy between the chemiluminescence and electrochemical methods for nasal nitric oxide measurements in PCD
Panayiotis Kouis (Nicosia, Cyprus), Grigorios Chatziparasidis, Barbara Boutopoulou, Heymut Omran, Maria Kakkoura, Stefania I. Papatheodorou, Kyriacos Kyriacou, Marios Papadopoulos, Vasilis Grammeniatis, Konstantinos Douros, Kostas Priftis, Panayiotis K. Yiallouros

Characterising nutrition status in a regional cohort of children with primary ciliary dyskinesia
Woolf Walker (Southampton (Hampshire), United Kingdom), Luise V Marino, Amanda Harris, Carolyn Johnstone, Amanda Friend, Victoria Keenan, Hannah Wilkins, Jane Lucas, Philip Calder

Comparison of conventional chest physiotherapy and vibratory positive pressure treatment system method in diagnosis of primary ciliary dyskinesia
Emine Atag (Istanbul, Turkey), Ibrahim Bingol, Pinar Ergenegkon, Nilay Bas Izkizoglu, Yasemin Gokdemir, Ela Erdem Eralp, Ayca Evkaya, Kendellen Gencer, Evrmi Karadag Saygi, Bulent Karadag

The effect of conventional chest physiotherapy and vibratory positive pressure therapy system on lung clearance index and spirometry in patients with primary ciliary dyskinesia
Emine Atag (Istanbul, Turkey), Pinar Ergenegkon, Nilay Bas Izkizoglu, Ibrahim Bingol, Yasemin Gokdemir, Ela Erdem Eralp, Ayca Evkaya, Kendellen Gencer, Evmir Karadag Saygi, Bülent Karadag
**PA4673** Evaluation of quality of life in patients with primary ciliary dyskinesia

Pinar Ergenekon (Istanbul, Turkey), Ibrahim Bingol, Emine Atag, Nilay Bas Ikizoglu, Yasemin Gökdemir, Ela Erdem Eralp, Bulent Karadag

**PA4674** Neuropsychological and Quality of life (QoL) assessment in children with severe asthma (SA) and moderate persistent asthma (MPA): a case-control study

Laura Montalbano (Palermo (PA), Italy), Giovanna Cilluffo, Silvia Montella, Stefania La Grutta, Simona Barni, Sara Bozzetto, Valeria Caldarelli, Antonio Di Marco, Emanuela Di Palmo, Grazia Fenu, Vera Galli, Michele Ghezzi, Lucia Leonardi, Amelia Licari, Violetta Mastorrelli, Mara Lelli, Maria Luisa Villani, Alessandro Volpini, Franca Rusconi

**PA4675** Predictors of pulmonary function test (Spirometry) values for Pakistani children, aged 5-14 years

Mustafa Ghulam (Multan, Pakistan), Muhammad Aslam

**PA4676** Lung function in children with congenital heart disease

Sophie Guerin (Lausanne, Switzerland), Nathalie Bertille, Dilia Khraiche, Damien Bonnet, Francois Goffinet, Nathalie Lelong, Babak Khoshnood, Christophe Delacourt

**PA4677** Infant lung function in relation to air pollution exposure in Stockholm, Sweden - results from the EMIL-cohort

Björn Lundberg (Skärholmen, Sweden), Erik Melén, Olena Gruzieva, Göran Pershagen, Jenny Hallberg

**PA4678** Association between asthma and lung function in adolescents born very preterm: results of the EPIPAGE cohort study.

Alice Hadchouel-Duvergé (PARIS, France), Jessica Rousseau, Jean-Christophe Roze, Catherine Arnaud, Adéle Bellino, StéPhane Marret, Pierre-Yves Ancel, Christophe Delacourt

**PA4679** Exercise induced dyspnea among adolescents – prevalence and incidence, a five-year follow-up

Henrik Johansson (Uppsala, Sweden), Margareta Emtner, Christer Janson, Andrei Malinovschi, Katarina Norlander, Leif Nordang

**PA4680** Challenges facing parents/caregivers of children with interstitial lung disease (chILD): international survey

Jeanette Boyd (Sheffield (South Yorkshire), United Kingdom), Steve Cunningham, Nicolaus Schwerk, Carlee Gilbert, Pippa Powell, Mareike Schamberger

**PA4681** Snoring in schoolchildren: prevalence and risk factors

Rebeca Mozún Torrico (Bern, Switzerland), Myrofora Goutaki, Cristina Ardura-Garcia, Florian Singer, Philipp Latzin, Alexander Moeller, Claudia E. Kuehni

**PA4682** Self-reported and medical chart histories of Australian Aboriginal and Torres Strait Islander (Indigenous) children and young adults

Tamara Blake (South Brisbane, Australia), Mark Chatfield, Anne Chang, Helen Petsky, Margaret Meelrea

**PA4683** Therapeutic educational pathway effect on asthma control: a pilot study

Laura Montalbano (Palermo (PA), Italy), Giovanna Cilluffo, Velia Malizia, Salvatore Fasola, Manuel Gentile, Marco Arrigo, Dario La Guardia, Mario Allegra, Nicola Murgia, Simona Pichini, Rosanna Mancini, Maria Concetta Rotolo, Stefania La Grutta

**PA4684** Combining supervised and unsupervised models to characterize asthma phenotypes in children

Bronwyn Brew (Stockholm, Sweden), Flaminia Chiesa, Cecilia Lundholm, Catarina Almqvist

**TP-39** Session 460 12:50 - 14:40

**Thematic poster: Clinical challenges in respiratory infection**

**Disease(s):** Respiratory critical care, Respiratory infections, Thoracic oncology, Airway diseases, Respiratory infections

**Method(s):** Public health, Physiology, Endoscopy and interventional pulmonology, Surgery, Epidemiology, Respiratory intensive care, General respiratory patient care

**Chairs:** Catia Cilloniz Campos (Barcelona, Spain), Aikaterini Dimakou (Agia Paraskeyi, Greece), Michal Shteinberg (Haifa, Israel), Adamadia Liapikou (Athens, Greece)

**PA4685** Outcomes of empyema in the elderly: A study from Australia's Capital Territory

Budhima Nanayakkara (Cooma (NSW), Australia), Jian Tai, Joe Lemberger, Carol Huang

**PA4686** Are there geographical differences in the microbiology of pleural infection?

Maged Hassan (Alexandria, Egypt), Tamsin Cargill, John Corcoran, Elinor Harriss, Rachelle Asciak, Rachel Mercer, Rob Hallifax, Najib Rahman

**PA4687** Intrapleural tissue plasminogen activator (tPA) and deoxyribonuclease (DNAse) for pleural infection in an Asian population: Similar outcomes between 5mg and 10mg regimen

Kim Hoong Yap (Singapore, Singapore), Geak Poh Tan, John Abisheganaden
### Disease(s): Respiratory infections, Respiratory critical care, Respiratory infections

### Method(s): Public health, Cell and molecular biology, Endoscopy and interventional pulmonology, Epidemiology, Imaging, General respiratory patient care, Respiratory intensive care
**PA4705**

**Major infections after cardiac surgery and antibiotic management practices in a tertiary care centre**

Supraja Kalyanaraman (Chennai (Tamil Nadu), India), Rohit Anusha, Durairajan Suresh, Soundar Sharmila, Kangasamy Bhoopathi

**PA4706**

**The aetiology of thoracic empyema in the Australian Capital Territory: An old enemy with a new army.**

Budhima Nanayakkara (Cooma (NSW), Australia), Jian Tai, Joe Lemberger, Carol Huang

**PA4707**

**The impact of 2016 guideline on clinical practice for the management of hospital-acquired and ventilator-associated pneumonia in Taiwan**

Chia-Lin Yang (Tokyo, Japan), Noriko Sakuma, Masakazu Kohno, Toshikiko Sakai, Hirokazu Tojima

**PA4708**

**Analysis of causes of death and mortality risk factors in elderly patients hospitalized due to pneumonia**

Yuri Suzuki (Tokyo, Japan), Noriko Sakuma, Masakazu Kohno, Toshikiko Sakai, Hirokazu Tojima

**PA4709**

**Paragonimus westermani infection manifested as pulmonary cavity and adrenal gland mass: case report**

Hyun Jung Kim (Daegu, Republic of Korea), Yong-Shik Kwon

**PA4710**

**Outcomes of Fibrinolytic therapy for acute empyema.**

Takahisa Koizumi (Niigata, Japan), Hiroshi Moriyama, Tatsuhiko Hirono, Tetsuro Ohdaira, Takehiro Watanabe

**PA4711**

**Clinical analysis of pulmonary Mycobacterium kansasii disease**

Yoshihiro Kobashi (Kurashiki (Okayama), Japan), Ryo Shirai, Shigeki Kato, Mikio Oka

**PA4712**

**Safety and efficacy of reduced dose intrapleural alteplase and DNAase for pleural infection**

Hugh Ip (London, United Kingdom), Alex West, Deirdre Wallace, Farinaz Noorzad, Liju Ahmed

**PA4713**

**Microbiology of pleural infection according to setting**

Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Maged Hassan, Tamsin Cargill, John Corcoran, Elinor Harriss, Rachelle Asciak, Rachel Mercer, Rob Hallifax, Najib Rahman

**PA4714**

**Features of hospital-acquired pneumonia in gerontological patients of the Altai Regional Clinical Hospital.**

Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Aleksandra Baltiaskaya, Antonina Berdyugina, Valeriy Elykomov, Andrew Zateev, Igor Babushkin

**PA4715**

**Predictors for length of hospital stay in patients with community-acquired Pneumonia.**

Houda Rouis (Tunis, Tunisia), Hamida Kwas, Ines Zandah, Ibtihel Khouaja, Amel Khatbab, Habib Ghédira

**PA4716**

**Predictive factors for methicillin-resistant Staphylococcus aureus (MRSA) infection in a MRSA screening protocol.**

Daniel Oliveira Reis (Ovar, Portugal), Margarida Costa Silva, Carla Ribeiro, Eloisa Silva, Margarida Dias, Daniel Pires Coutinho, Teresa Shiang, Gabriela Abreu, Inês Sanches, Manuela Vanzeller

**PA4717**

**Epidemiology and outcome of ventilator associated pneumonia in an tertiary care ICU of India.**

Shuvranu Ghosh (New Delhi (Delhi), India), Amit Dhaimija, Debashish Dhar, Arup Basu, Neeraj Goel

**PA4718**

**MYCOBACTERIUM KANSASII LUNG INFECTIONS COMPARED TO OTHER NONTUBERCULOUS MYCOBACTERIA**

Sandra Pedrero Tejada (Santurtzi (Vizcaya), Spain), Eva Taberner Huguet, Borja Ortiz De Urbina Antia, Idoia Salinas Garrido, Beatriz Gonzalez Quero, Eunate Arana Arri, Elena Urra Zalbidegoitia, Rafael Zalacain Jorge

**PA4719**

**Additional diagnostic value of chest CT in patients with suspected pneumonia.**

Takuto Sueyasu (Fukuoka, Japan), Kazunori Kousaka, Manasobu Okahisa, Kojin Murakami, Yuki Goto, Miyuki Munechika, Kohe Yoshimine, Saori Nishizawa

**PA4720**

**Pulmonary actinomycosis in Brazil: a retrospective case series**

Philippe de Figueiredo Braga Colares (São Paulo (SP), Brazil), Tomás Béder, Roberta Karla Sales, Ellen Pierre Oliveira, Felipe Marques Costa, André Nathan Costa

**PA4721**

**Low respiratory tract infection (LRTI) in ALS patients. A regional referring centre experience**

Paola Pierucci (Sydney (NSW), Australia), Enrico Buonamico, Pierluigi Intigletta, Giuseppe Cassano, Pierluigi Carratù, Silvano Dragonieri, Onofrio Resta

**PA4722**

**Whole-blood test for the diagnosis of lung Cystic Echinococcosis**

Linda Petrone (Roma (RM), Italy), Valentina Vanni, Vincenzo Schininà, Elisa Busi Rizzi, Edoardo Pozio, Giuseppe Cardillo, Marco Di Martino, Antonella Teggi, Delta Goletti

**PA4723**

**Clinical profile and outcome of patients with sputum positive Acinetobacter baumannii infection**

Parakkal Sukumaran (Kottayam (Kerala), India), Beena Thomas, Sethu Babu, Seema Oommen
TP-41  Session 462  12:50 - 14:40

Thematic poster: The immune response to tuberculosis: development of biomarkers and diagnostic tools

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections

**Method(s):** General respiratory patient care, Cell and molecular biology

**Chairs:** Valeriu Crudu (Chisinau, Republic of Moldova), Lorenzo Guglielmetti (Paris, France), Jan Heyckendorf (Hamburg, Germany), Chair to be confirmed

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**PA4724**
Evaluation of new biomarkers for laboratory diagnosis of tuberculosis
Ehsan Aryan ( Mashhad, Islamic Republic of Iran), Mahsa Sayadi, Zahra Meshkat, Alireza Neshani, Hadi Safdari

**PA4725**
MicroRNAs in serum of post primary TB patients.
Vladimir Yeremeev (Moscow, Russian Federation), Vladimir Evstifeev, Galina Shepelkova, Anush Ergeshova, Mamed Bagirov

**PA4726**
Transcriptional Signature Identifies Phenotypic Heterogeneity of Human Tuberculosis Infection
Raman Verma (Leicester (Leicestershire), United Kingdom), Akul Singhania, Christine Graham, Joanne Lee, Gerrit Wollmann, Anne O'Garra, Pranabashis Haldar

**PA4727**
Production, purification and validation of anti-tuberculosis IgY for diagnostic purposes
Ehsan Aryan ( Mashhad, Islamic Republic of Iran), Mahdi Kouhi-Noghondar, Mojtaba Sankian, Amir-Ali Arian, Zahra Meshkat

**PA4728**
High-resolution quantitative proteomics applied to the discovery of biomarkers of innate immune response in tuberculosis.
Jesús Mateos Martin (Vigo, Spain), Africa Gonzalez-Fernandez, Luis Anibarro, Angeles Pallares, Rajko Reljic, Jose Maria Gallardo, Isabel Medina, Monica Carrera

**PA4729**
Mycobacterium tuberculosis blocks phagolysosome maturation in alveolar macrophages of tuberculosis patients
Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva2, Diana Vakhrusheva2, Sergey Skornyakov2

**PA4730**
Mycobacterium tuberculosis reside only inside phagosomes in alveolar macrophages of tuberculosis patients
Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva2, Diana Vakhrusheva2, Sergey Skornyakov2

**PA4731**
Cytokines/chemokines gene expression in the lungs of fibrous-cavernous TB patients.
Vladimir Yeremeev (Moscow, Russian Federation), Galina Shepelkova, Vladimir Evstifeev, Anush Ergeshova, Mamed Bagirov

**PA4732**
Features of development of TB infection caused by different doses of MBT
Natalya Eremeeva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Tatyana Tyulkova, Leonid Lavrechuk, Ksenia Belousova, Tatyana Umpeleva, Diana Vakhrusheva

**PA4733**
The study of differential gene expression of matrix metalloproteinases in macrophages infected with Mycobacterium tuberculosis
Shashikant Vaidya (Mumbai (Maharashtra), India), Jinesh Maniar

**PA4734**
Assessment of differential activity of reactive radicals in cell lines infected with Mycobacterium tuberculosis.
Shashikant Vaidya (Mumbai (Maharashtra), India), Sukanya Sawant, Jinesh Maniar

**PA4735**
Effect of polymorphism of Toll-like receptor genes on the duration of pulmonary tuberculosis
Eugeny Bayke (Chita, Russian Federation), Ekaterina Bogodukhova

**PA4736**
Immunological differences between lung tuberculosis and latent tuberculosis infection
Anna Starshinova (St. Petersburg, Russian Federation), Evgenia Istominina, Ulia Zinchenko, Nina Denisova, Michail Nazarenko, Michail Filatov, Vladimir Burdakov, Sergey Landa, Piotr Yablonskiy

**PA4737**
Characteristics of IL-12p70 and IL-12p40 serum level among active, latent, and contact with tuberculosis patients
Eliana Muis (Makassar, Indonesia), Nur Ahmad Tabri, Irawaty Djaharuddin, Ayu Purnamasari

**PA4738**
Capacities of blood serum lipoarabinomannan in the diagnosis of tuberculosis at a late stage of HIV infection
Artem Dudchenko (Zelenograd, Russian Federation), Mikhail Averbakh, Natalia Karpina, Atajan Ergeshov

**PA4739**
Determination of CD4, CD8 and IL-8 levels in serum and BAL fluid of patients with pulmonary anthracosis
Arda Kiani (Tehran, Islamic Republic of Iran), Atefeh Abedini, Mehdi Ramazanpour, Esmaeil Mortaz, Hamidreza Jamaati, Kimia Taghavi, Fatemeh Razavi

TP-42  Session 463  12:50 - 14:40

Thematic poster: Drug-resistant tuberculosis and the sequelae of pulmonary tuberculosis
Disease(s): Respiratory infections, Respiratory critical care, Pulmonary vascular diseases, Airway diseases, Respiratory infections

Method(s): Cell and molecular biology, Respiratory intensive care, Epidemiology, Public health, General respiratory patient care

Chairs: Alberto Garcia-Basteiro (Maputo, Mozambique), André Santos-Silva (Porto, Portugal), Margareth Maria Pretti Dalcolmo (Rio De Janeiro (RJ), Brazil), Alena Skrahina (Minsk region, Belarus)

PA4740 | Experience in the use of Bedakville in the therapy of multidrug-resistant tuberculosis and HIV infection. | Elena Ershova (St.-Petersburg, Russian Federation), Irina Chernokhaeva, Maria Pavlova, Anna Starshinova, Nadezhda Sapozhnikova

PA4741 | Bedaquiline in the treatment of patients with co-infection HIV/tuberculosis | Armine Galstyan (Moscow, Russian Federation), Sergey Evgenievich Borisov, Michail Sinitsin

PA4742 | Bedaquiline in treatment of TB/HIV co-infection patients with extremely-drug resistance of MBT | Goor Balasanianc (Leningrad Oblast, Russian Federation)

PA4743 | To evaluate the outcome of tuberculosis at a tertiary care hospital in Karachi-Pakistan | Mariyam Gohar Ali (Karachi, Pakistan), Syed Muhammad Zubair, Talha Shahzad, Afshan Yaseen, Muhammad Irfan

PA4744 | Spreading of resistance to group A anti-tuberculosis drugs among TB patients in Astana city | Goor Balasanianc (Leningrad Oblast, Russian Federation), Zhanna Rakisheva, Anna Zepke, Akmaral Akisheva, Nataliya Solovjeva

PA4745 | Evaluation of 123 Cases with MDR TB (Multidrug Resistant Tuberculosis) Treatment | Aylin Babalık (İstanbul, Turkey), Ayse Rumeysa Hazine, Gul Erdal Donmez, Olga Akkan, Fatma Kutluhan, Ahmet BahKci, Gulay Catmabacab, Kayda Koska, TuLin Kuyucu


PA4747 | Accompanying therapy of patients with extensive drug-resistant (xdr) lung tuberculosis | Nikolay Nikolenko (Moscow, Russian Federation), Ludmila Shovkun, Dmitry Kudlay, Irina Franchuk

PA4748 | MDR-TB treatment efficacy by results of Xpert MTB/RIF assay in the Stavropol region of the Russian Federation | Rizvan Abdullaev (Moscow, Russian Federation), Oksana Komissarova, Yelena Chunukova, Vasily Odnets

PA4749 | Community based therapy for children with Multidrug-Resistant Tuberculosis in Khyber Pakhtunkhwa Peshawar, Pakistan | Arshad Javaid (Peshawar, Pakistan), Mazhar Ali Khan, Mir Azam Khan

PA4750 | Use of shortened chemotherapy regimens in treatment of adolescents with MDR/XDR TB | Evgenia Viechelli (Moscow, Russian Federation)

PA4751 | Adverse effects of chemotherapy in patients with multidrug-resistant tuberculosis with alcohol abuse and without one | Alena Aleksa (Grodno, Belarus), Ilja Gelberg, Siargej Wolf, Janina Artsukevich, Andrej Tsiunchyk, Anatoly Masilevich, Yurij Shejfer

PA4752 | Use of line probe assays for the diagnosis of drug-resistant tuberculosis in Hospital for respiratory diseases “St. Sofia”, Sofia, Bulgaria | Vladimir Milanov (Sofia, Bulgaria), Svetlana Velizarova, Albena Spasova, Natalia Gabrovskva, Tsvetanka Dimitrova-Milanova, Gergana Mihaylova, Maria Nachkova, Dimitar Kostadinov

PA4753 | Variability of primary resistant M.tuberculosis strains in TB service institutions | Anton Rogozhin (Kharkov, Ukraine), Petr Poteiko, Ollha Konstantynoska, Oleksandr Liashenko, Oleksii Solodiankin

PA4754 | Construing the role of Proteasome Accessory Factor-C in fluoroquinolone resistance in pulmonary tuberculosis | APOORVÀ NARAIN (Lucknow (Uttar Pradesh), India), Ekta Dhamija, Kanchan Srivastava, Kishore K Srivastava, Surya Kant

PA4755 | A case series of pyrazinamide mono-resistant mycobacterium tuberculosis using whole genome sequencing for diagnosis and cluster linkage. | Darryl Braganza Menezes (Birmingham (West Midlands), United Kingdom), Sebastian Lugg, Gemma Hawthorne, Esther Robinson, Martin Dedicoat

PA4756 | Ability of genotypical method to make assessment of tuberculosis infection hotbed | Iryna Ovcharenko (Kharkiv, Ukraine), Olga Hovardovska, Olga Schevchenko

TP-43 | Thematic poster: Diagnosis of tuberculosis | 12:50 - 14:40

Session 464 | 10.09.2018
**Disease(s):** 
- Respiratory Infections
- Airway Diseases
- Respiratory Infections

**Method(s):**
- Cell and molecular biology
- Epidemiology
- Endoscopy and interventional pulmonology
- Imaging
- General respiratory patient care
- Public health

**Chairs:** 
- Berit Lange (Freiburg, Germany), Dragica Pešut (Beograd, Republic of Serbia), Simon Tiberi (London, United Kingdom), Cécile Magis-Escoura (Nijmegen, Netherlands)

**Late Breaking Abstract - An Electronic Nose as a screening tool for childhood Tuberculosis**

Luisa Quesada (Brookline, United States of America), Sergio Poli De Frías, Gessica Di Toro, Eymes Salas, Ana Gutierrez, Jessica Bello, Isabel Tovar, Maria España, Heriberto Perez, Julian Villalba, Marlene Villalon, Jacobus De Waard

**Rapid diagnosis of tuberculosis and rifampin resistance by GeneXpert MTB/RIF test**

Şeref Özkara (Ankara, Turkey), Ismail Ceyhan, Mujgan Guler, Gungor Dulkar

**The utility of delta neutrophil index in differentiation of pulmonary tuberculosis from community acquired pneumonia**

Jun Hyek Lim (Seoul, Republic of Korea), Byung Woo Hjun, Hyun Il Gil, Yun Su Sim, Tae Rim Shin, Dong-Gyu Kim

**Compliance with recommendation for respiratory sampling in diagnosis of Tuberculosis(NICE guideline NG33)**

HNIN WINT WINT AUNG (Woking (Surrey), United Kingdom), Salim P L Meghjee, Debbie Wearmouth

**Comparison of the diagnostic value of immunological test, applied to two types of biological fluids - venous blood and bronchoalveolar lavage in children with tuberculosis**

Svetlana Velizarova (Soﬁa, Bulgaria), Nataliya Gabrovska, Dimitar Kostadinov, Dinko Valev, Nevena Gesheva, Yana Krasteva

**Activity of lysozyme and adenosine deaminase in patients with pulmonary tuberculosis**

Mirjana Trajcevska (Skopje, FYROM (Macedonia)), Aleksandar Sandevski

**High serum peristin levels and the association with pulmonary tuberculosis**

Momoko Yamauchi (Okinawa-ken, Japan), Takeshi Kinjo, Gretchen Parrott, Jiro Fujita

**First experience of single TB centre in diagnosis of peripheral pulmonary lesions using radial-EBUS.**

Irina Shumskaya (Moscow, Russian Federation), Ilya Sivokozov, Elena Larionova, Galina Èvgschenko, Natalya Karpina, Olga Lovacheva

**Patients with recurrent tuberculosis in Istanbul: reactivation?, reinfection?**

Gonca Öcal (Istanbul, Turkey), Pınar Etiz, Zuleyha Bingol, Orhan Kay Koksalan, Zeki Kilicaslan

**Radiological differential diagnosis of lung cavities**

Rasul Amansahedov (Moscow, Russian Federation), Natalia Karpina, Irina Limarova, Roksana Kazho, Anatoliy Sigaev, Atadzhan Ergeshov

**Diagnostic role of bronchoscopy in induced sputum negative pulmonary tuberculosis in tertiary care centre, South India**

Don Gregory Mascarenhas (Puttur (Karnataka), India), Neema Motadka

**Trend of delay treatment of patient and healthcare system in diagnosis and management of pulmonary tuberculosis in Iran**

Abolfazl Mozaffari (Tehran, Islamic Republic of Iran), Reza Kianifar

**Role of Bronchial Washing Gene Xpert in smear negative cases of suspected pulmonary tuberculosis**

Faisal Faiyaz Zuberi (Karachi Sindh, Pakistan), Sagheer Hussain, Sidra Hameed, Bader Faiyaz Zuberi

**The role of computed tomography in differential diagnosis of pulmonary TB in patients with chronic renal failure in the terminal stage.**

Olga Gordeeva (Moscow, Russian Federation), Rasul Amansakhedov, Irina Limarova, Natalia Karpina, Atadjan Ergeshov

**Hepatic tuberculosis – a case series**

Edward Williams (HINCKLEY (Leicestershire), United Kingdom), J L Potter, F Duff, M Burman, S Tiberi, V White, H Kunst

**Study of diagnostic sensitivity for mycobacterium tuberculosis (MTB) by smear, culture and Xpert MTB/RIF assay in pleural specimens obtained by medical thoracoscopy.**

Mahaveera Bnbm Prasad (Bengalure (Karnataka State), India)

**Semi-quantitation of tuberculosis bacilli (MTB) and nontuberculous mycobacteria (NTM) in sputum by a new nucleic acid amplification test (NAAT)**

Emmanuelle Cambau (Paris, France), Sylvain Kumanski, Emmanuel Lecorche, Faiza Mougari
PA4774 Knowledge of Cough Hygiene And Disposal of Sputum in Patients with Pulmonary Tuberculosis
Deepu Changappa Cherianame (Madikeri (Karnataka), India)

PA4775 Negative effect of ferritin levels on T-SPOT.TB, an enzyme-linked immunospot based interferon-gamma release assay using Mycobacterium tuberculosis specific antigens, in the smear-positive active pulmonary tuberculosis.
Masaki Yamamoto (Yokohama, Japan), Ken Tashiro, Misako Ikeda, Hideyuki Nagakura, Kentaro Nakashima, Ryota Ushio, Kenjiro Nagai, Yu Haru, Nobuaki Kobayashi, Takashi Sato, Masaharu Shinkai, Makoto Kudo, Takeshi Kaneko

TP-44 Session 465 12:50 - 14:40
Thematic poster: Management of idiopathic interstitial pneumonias: established and new treatments

Disease(s): Interstitial lung diseases

Method(s): Endoscopy and interventional pulmonology  Physiology  Epidemiology  Respiratory intensive care  General respiratory care  Public health

Chairs: Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Claudia Valenzuela (Alcobendas (Madrid), Spain), António Morais (Maia, Portugal), Shinichiro Ohshimo (Hiroshima, Japan)

PA4776 A self-reported qualitative assessment of yoga exercises delivered to patients with IPF and their caregivers.
Nicola Cassidy (Dublin 5, Ireland), Michael Darragh Macauley, Jim Egan

PA4777 Patterns of discontinuation in patients with IPF treated with open-label nintedanib: data from INPULSIS-ON
Ulrich Costabel (Essen, Germany), Michael Kreuter, Jin Woo Song, John T Huggins, Benoit Wallaert, Wibke Stansen, Manuel Quaresma, Bruno Crestani

PA4778 Factors influencing Idiopathic Pulmonary Fibrosis (IPF) anti-fibrotic decisions in a single UK centre; patient and physician perspectives
Alexis Papadopoulus (Manchester, United Kingdom), Savvas Zannetos, Rachel Hoyles

PA4779 Investigation burden in patients with fibrotic interstitial lung disease in their terminal admission
Hui Guo (Melbourne (VIC), Australia), Jennifer Mann, Natasha Smallwood, Nicole Goh

PA4780 Three-centre study (DZL) to investigate the effects of three-month whole-body vibration training on muscle strength, lung function, health-related quality of life and inflammation markers in patients with pulmonary fibrosis.
Tobias Boeselt (Marburg, Germany), Andreas Rembert Koczulla, Janina Koelpin, Christoph Nell, Fabian Kaufhold, Claus Vogelmeier, Felix Herth, Peter Alter, Martina Veith, Timm Greulich, Christian Kaehler, Michael Kreuter

PA4781 Lessons learned when recruiting for an early Idiopathic Pulmonary Fibrosis (IPF) palliative care intervention
Kathleen Lindell (Pittsburgh, United States of America), Mehdi Nouraie, Sara Klein, Melinda Klesen, Kevin Gibson, Daniel Kass, Margaret Rosenzweig

PA4782 Introducing a new formulation of pirfenidone to reduce tablet burden for the IPF patient: Is it tolerable? Is it easy to take? What do our patients think?
Helen Morris (Manchester (Greater Manchester), United Kingdom), Tracey Marshall, Katie Zakis, Theresa Garfoot, Conal Hayton, Pilar Rivera Ortega, Colm Leonard, John Blakley, Nazia Chaudhuri

PA4783 Team support with pharmacists improved tolerability of antifibrotic agents for pulmonary fibrosis.
Mariko Kogo (Hyogo prefecture, Japan), Yukari Satsuma, Koari Kusuda, Hiroaki Ikese, Ryobu Mori, Daichi Fujimoto, Kazuma Nagata, Atsushi Nakagawa, Ryo Tachikawa, Kojiro Otsuka, Keioku Tomii

PA4784 Patients’ expectations and quality of life before introduction of pirfenidone used in idiopathic pulmonary fibrosis.
Alesksandra Belz (Katowice, Poland), Paulina Debowska, Joanna Warzecha, Aleksandra Gasirek, Dominika Galczynska, Sylwia Czyz, Bettina Ziaja, Dariusz Jastrzebski, Dariusz Ziora

PA4785 Combination treatment with nintedanib and prednisolone for patients with idiopathic pulmonary fibrosis
Motoyasu Kato (Tokyo, Japan), Takahiro Nakamura, Kana Kono, Mizuki Haraguchi, Tomoko Yamada, Hiroaki Ihara, Fumiyuki Takahashi, Kazuhisa Takahashi

PA4786 Benefits of a pilot program of supervised exercise training in Idiopathic Pulmonary Fibrosis
Jaume Bordas Martinez (barcelona, Spain), Jose Manuel Palma Lopez, Mariagna Sampere Aymerich, Anna Bachs Salvador, Lurdes Planas Cerezales, Ivette Callorda Boniatti, Ferran Lopez Beltran, Rosa Planas Balague, Jordi Dorca Sargatal, Maria Molina Molina, Vanesa Vicens Zygmont

PA4787 Long-term (4 years) experience of Nintedanib in IPF patients in Crete: A real life data study
Athina Trachalaki (Iraklio, Greece), Katerina Antoniou, Eirini Vasarmidis, George Margaritopoulos, George Papastratigakis, Eleni Bibaki, Evangelia Stamataki, George Meletis, Nikolaos Tzanakis

PA4788 Palliative and symptomatic care of patients with fibrotic interstitial lung disease
Jennifer Mann (Melbourne (VIC), Australia), Hui Guo, Nicole Goh, Natasha Smallwood
<table>
<thead>
<tr>
<th>Session 466</th>
<th>12:50 - 14:40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thematic poster: Back to basics and translational research in idiopathic interstitial pneumonias</strong></td>
<td></td>
</tr>
</tbody>
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**Disease(s):** Interstitial lung diseases, Airway diseases  
**Method(s):** Imaging, Physiology, Endoscopy and interventional pulmonology, General respiratory patient care, Cell and molecular biology  
**Chairs:** Manuela Funke-Chambour (Bern, Switzerland), Phil Molyneaux (London, United Kingdom), Hiroyuki Ito (Nagasaki, Japan), Martina Šterclová (Praha, Czech Republic)  

<table>
<thead>
<tr>
<th>Poster ID</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA4790</td>
<td>Idiopathic Pulmonary Fibrosis (IPF): Should it be all about the FVC?</td>
<td>Sarah Boot (Leeds (West Yorkshire), United Kingdom), Laura Horgan, Louise Flint, Tim Sutherland, Paul Beirne</td>
<td>Leeds (West Yorkshire), United Kingdom</td>
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<td>PA4791</td>
<td>A comparison of pirfenidone versus nintedanib for the management of idiopathic pulmonary fibrosis</td>
<td>Mariam Naqvi (London, United Kingdom), Grainne D’Ancona, Alex West</td>
<td>London, United Kingdom</td>
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<tr>
<td>PA4792</td>
<td>Real-life efficacy of Pirfenidone in a cohort of patients with IPF in Northern Greece</td>
<td>Serafim Chrysovalantis Koutoulas (Θεσσαλονίκη, Greece), Evangelia Fouka, Ioannis Organtzis, Georgia Pitsiou, Antonios Papaioanou, Christoforos Euthymiou, Ioannis Stanopoulos, Violetta Mourouzidou, Theodoros Kontakiotis, Despoina Papakosta</td>
<td>Θεσσαλονίκη, Greece</td>
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<td>PA4793</td>
<td>Associations between comorbidities, their treatment and survival in patients with interstitial lung diseases – a claims data analysis</td>
<td>Larissa Schwarzkopf (Neuherberg, Germany), Sabine Witt, Julia Waelscher, Markus Polke, Michael Kreuter</td>
<td>Neuherberg, Germany</td>
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<tr>
<td>PA4794</td>
<td>Experience of patients treated with nintedanib in the Community of Madrid. REFIPIMAD Registry</td>
<td>Mª Asuncion Nieto Barbero (Madrid, Spain), Luis Gómez Carrera, Mª Jesús Rodriguez Nieto, Alvaro Casanova Espinosa, Rosalía Laporta Hernández, Belen López-Muñiz Ballesteros, Claudia Valenzuela, Teresa Bilbao-Goyoaga Arenas, Gemma Mª Mora Ortega, Mª Teresa Rio Ramirez</td>
<td>Madrid, Spain</td>
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<tr>
<td>PA4795</td>
<td>Efficacy of combined therapy with pirfenidone and inhaled N-acetylcysteine for idiopathic pulmonary fibrosis: a randomized controlled phase 3 trial</td>
<td>Sakae Homma (Tokyo, Japan), Yasuhiro Kondoh, Motoyasu Kato, Tomoaki Hoshino, Hiroshi Mukae, Masashi Bando, Takafumi Suda, Takaaki Kido, Yoshinori Tanino, Tomoo Kishaba, Noboru Hattori, Yoshio Taguchi, Takefumi Saitoh, Yasuhiro Nishioka, Kazuyoshi Kuzawa, Kazuma Kishi, Naohiko Inase, Shinichi Sasaki, Hajime Takizawa, Takeshi Jokoh, Fumikazu Sakai, Susumu Sakamoto</td>
<td>Tokyo, Japan</td>
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<tr>
<td>PA4796</td>
<td>Nigella sativa fixed oil, attenuates bleomycin-induced pulmonary fibrosis in a rat model</td>
<td>Anouar Abidi (Tunis, Tunisia), Sana Bahri, Saloua Ben Khamsa, Alexandre Legrand</td>
<td>Tunis, Tunisia</td>
</tr>
<tr>
<td>PA4797</td>
<td>The activity of nintedanib in a mouse model of severe allergic lung remodeling</td>
<td>Lutz Wollin (Biberach an der Riß, Germany), Christopher Tomsic, Klaus Erb</td>
<td>Biberach an der Riß, Germany</td>
</tr>
<tr>
<td>PA4798</td>
<td>Role of MUC4 in idiopathic pulmonary fibrosis</td>
<td>Beatriz Ballester (Burjassot (Valencia), Spain), Javier Milara, Ricardo Guijarro, Esteban Morcillo, Julio Cortijo</td>
<td>Burjassot (Valencia), Spain</td>
</tr>
<tr>
<td>PA4799</td>
<td>Implication of FGFR4 and its ligands in Idiopathic Pulmonary Fibrosis</td>
<td>Aurélie Justet (Paris, France), Simon Demagny, Tiara Boghainim, Madeleine Jaillet, Emmeline Marchal-Duval, Aurélie Cazes, Pierre Mordant, Yves Castier, Arnaud Mailleux, Bruno Crestani</td>
<td>Paris, France</td>
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<td>PA4800</td>
<td>M-BAR promotes pulmonary fibroblast proliferation through TGF-B1/akt/ERK1/2 signaling pathway</td>
<td>Xueqing Liu (Shanghai, China), Handong Jiang</td>
<td>Shanghai, China</td>
</tr>
<tr>
<td>PA4801</td>
<td>Probe-based confocal laser-endomicroscopy imaging of differential auto-fluorescence of alveolar macrophages in diffuse lung diseases</td>
<td>Kazuyoshi Imaiizumi (Toyooka, Japan), Takuya Okamura, Tomoyuki Minezawa, Yusuke Gotoh, Tomoya Horiguchi, Yuki Mieno, Sakurako Uozu, Masashi Kondo</td>
<td>Toyooka, Japan</td>
</tr>
<tr>
<td>PA4802</td>
<td>Assessment of collagen in human idiopathic pulmonary fibrosis using second harmonics on Genesis 200</td>
<td>Simon Royce (Clayton, Australia), Cem Erdent, Andre Tan, Jade Jaffar, Glen Westall, Jane Bourke, Chirisan Samuel, Robert Widdop</td>
<td>Clayton, Australia</td>
</tr>
<tr>
<td>PA4803</td>
<td>Investigating effects of nintedanib on biomarkers of ECM turnover in patients with IPF: the INMARK study</td>
<td>Toby Maher (St. Albans (Hertfordshire), United Kingdom), Susanne Stowasser, Yasuhiro Nishioka, Eric S White, Vincent Cottin, Imre Noth, Moises Selman, Daniel Wachtlín, Claudia Diefenbach, R Gisli Jenkins</td>
<td>St. Albans (Hertfordshire), United Kingdom</td>
</tr>
</tbody>
</table>
Changes in neutrophil-lymphocyte and platelet-lymphocyte ratios and clinical outcomes in idiopathic pulmonary fibrosis
Susan Limb (South San Francisco, United States of America), Sangeeta Bhorade, Elizabeth Morgenthien, Jessica Castle, Jayesh Mehta

Salvianolate can attenuate bleomycin-induced pulmonary epithelial-mesenchymal transition
fangfang wang (Qingdao, China), Handong Jiang

Mucus matters: Ferrets demonstrate sustained fibrosis and mucociliary decrement following bleomycin-induced pulmonary fibrosis
Jacelyn Peabody (Birmingham, United States of America), Scott Phillips, Vivian Lin, Sandeep Boduluri, Jeremie Lever, Renjay Shei, Dezhi Wang, Corrine Hennessy, Evgenia Dobrinskikh, Trenton Schoebe, Taylor Bono, Denise Stanford, Victor Thannickal, John Engelhardt, Guillermo Teaney, David Schwartz, Steven Rowe

Calgranulin B/S100A9 and KL-6 in bronchoalveolar lavage of patients with IPF and NSIP.
David Bennett (Siena (SI), Italy), Giuseppe Cillis, Laura Bergantini, Martina Salvini, Paolo Cameli, Antonella Fossi, Rosa Metella Refini, Paola Rottoli

ER stress is involved in alveolar epithelial cell dysfunction in hypoxia
eva Delbrel (Bobigny, France), eva Delbrel, Abdoulaye Soumare, Dominique Marchant, Thomas Gille, Jean-François Bernaudin, Carole Planès, Emilie Boncoeur

Assessment of blood biomarkers in patients with IPF under antifibrotic therapy
Peter Wolf (Heddesheim, Germany), Marc Schneider, Thomas Muley, Michael Meister, Felix Herth, Michael Kreuter, Nicolas Kahn

TNF-a and IL-10 control macrophage expression of CXCL13, a prognostic biomarker of idiopathic pulmonary fibrosis
Nessrine Bellamri (Rennes, France), Chloé Rousseau, Claudie Morzadec, Marianne Le Garrec, Baptiste Arnouat, Audrey Joannes, Bertrand De La Latour, Francisco Llamas-Guitierrez, Laurent VERNHET, Stéphane Jouneau

Development of assays to evaluate inflammasomes’ activity in the peripheral blood and in alveolar macrophages in fibrotic lung diseases
Athina Trachalaki (Iraklio, Greece), Eliza Tsitoura, Eirini Vasarmidi, Eleni Bibaki, George Papanastagakis, George Margaritopoulos, Nikolaos Tzanakis, Katerina Antoniou

Definition of trypsin-like enzymes activity as the marker of severity of idiopathic pulmonary fibrosis
Kateryna Gashynova (Dnipro, Ukraine), Oksana Karasyova, Viktoriya Rodionova

IPF exacerbations: Role of Respiratory tract infections
Kimberley Butler (Manchester, United Kingdom), Shoaib Malik, Namrata Kewalramani, Abdul Ashish

7.3A Session 467 13:00 - 14:30

Lunchtime session: Bronchiectasis: new insights in diagnosis and treatment

Aims: The prevalence of bronchiectasis in the United Kingdom increased by 40% between 2004 and 2014. Similar increases have been observed worldwide (European Respiratory Journal 2016 47: 186–193). The rising burden of this disease has led to intense research activity on potential treatments, including multiple randomised controlled trials. Despite this, treatment options remain limited and clinical management is challenging. This joint Lancet/Lancet Respiratory Medicine session aims to give an overview of the latest treatments, clinical developments and cutting-edge research in both adult and paediatric bronchiectasis.

Disease(s): Airway diseases  Paediatric respiratory diseases
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Clinical researcher, General practitioner, Paediatrician, Policy maker, Scientist (basic, translational), Adult pulmonologist/Clinician

Chairs: Stefano Aliaberti (Milan, Italy), Emma Grainger (LONDON, United Kingdom)

13:00 Bronchiectasis: new therapies and perspectives
James D. Chalmers (Dundee (Angus), United Kingdom) 4816

13:23 Diagnosis and management of non-cystic fibrosis bronchiectasis in children
Anne Bernadette Chang (Brisbane (QLD), Australia) 4817
13:45 Advances in bronchiectasis: the microbiome, endotyping, genetics and disease heterogeneity
Patrick Flume (Charleston, United States of America)

14:08 Amoxicillin-clavulanate versus azithromycin for respiratory exacerbations in children with bronchiectasis: the BEST-2 trial
Keith Grimwood (Gold Coast (QLD), Australia)

7.3Q Session 468 13:00 - 14:15

Lungs on fire: Sleep and Breathing Disorders
Aims:
• Study real challenging clinical cases
• Learn and exchange ideas with a panel of respiratory experts
• Discuss the various diagnosis and treatment options

Disease(s): Sleep and breathing disorders
Tag(s): Clinical

Target audience:
Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiologist

Chairs: Anita Simonds (London, United Kingdom), Paolo Palange (Rome, Italy), Walter McNicholas (Dublin, Ireland), Winfried J. Randerath (Solingen, Germany)

Session facilitator introduction
Dan Adler (Genève, Switzerland)

Case 1 - Author: S. Saraç (Istanbul, Turkey)

Case 2 - Author: J. Joblon (Franconville, France)

Case 3 - Author: A.C. Rodrigues Vieira (Almada, Portugal)

Case 4 - Author: A. Longoni (Mariano Comense, Italy)

Case 5 - Author: J. Van Woensel (Antwerp, Belgium)

7.3M Session 469 13:00 - 14:30

Lunchtime session: Myths and Truths of Inhaler Technology
Jointly organised by ERS, Boehringer Ingelheim Pharma GmbH, GlaxoSmithKline Services Unlimited, Mundipharma International Limited, Novartis Pharma AG & TEVA Pharmaceuticals Europe BV

Aims:
After this session, the audience will have gained a better understanding of the current and upcoming inhaler technologies.

Disease(s): Airway diseases
Method(s): General respiratory patient care
Tag(s): Clinical

Target audience:
Allergist, General practitioner, Lung function technologist, Nurse, Paediatrician, Student, Trainee, Adult pulmonologist/Clinician

Chairs: Federico Lavorini (Firenze (FI), Italy), Frans H.C. De Jongh (Enschede, Netherlands)

13:00 Making sense of inhalers - The device matters more than the drugs!
Omar S. Usmani (London, United Kingdom)

13:30 Using Inhalers and getting it right
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)

14:00 Adherence: Yesterday, Today and Tomorrow
David Price (Singapore, Singapore)

7.2B Session 470 13:00 - 14:15

Lungs on fire: Respiratory Infections
Aims:
• Study real challenging clinical cases
• Learn and exchange ideas with a panel of respiratory experts
• Discuss the various diagnosis and treatment options
Disease(s): Respiratory infections
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Allergist, Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Physiologist, Physiotherapist, Radiologist, Thoracic oncologist, Trainee
Chairs: Michael Loebinger (London, United Kingdom), Enrico M. Clini (Modena (MO), Italy), Renaud Louis (Liège, Belgium), David W. Denning (Manchester (Greater Manchester), United Kingdom)

Session facilitator introduction
Martin H. Brutsche (St. Gallen, Switzerland)

Case 1 - Author: C. Garcia Polo (Cádiz, Spain)

Case 2 - Author: F. Funke (Essen, Germany)

Case 3 - Author: J.A. Ordoñez Cardales (Bogotá, Colombia)

Case 4 - Author: M. Asadi Gharabaghi (Tehran, Iran)

Case 5 - Author: C. Crimi (Catania, Italy)

Lungs on fire: Pulmonary Vascular Diseases & Respiratory Infections

Aims: Study real challenging clinical cases
- Learn and exchange ideas with a panel of respiratory experts
- Discuss the various diagnosis and treatment options

Disease(s): Pulmonary vascular diseases, Respiratory infections
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Critical/Intensive care physician, General practitioner, Nurse, Paediatrician, Radiologist, Trainee, Thoracic oncologist
Chairs: Anh Tuan Dinh-Xuan (Paris, France), Francesco Blasi (Milan, Italy), George Dimopoulos (Athens, Greece), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

Session facilitator introduction
Antoni Torres (Barcelona, Spain)

Case 1 - Author: M. Silveira Lapa (Sao Paulo, Brazil)

Case 2 - Author: A. Qayum (London, United Kingdom)

Case 3 - Author: E.T. Almas (Limerick City, Ireland)

Case 4 - Author: M. Dianti (Buenos Aires, Argentina)

Case 5 - Author: R. Coelho Soares Rosa (Lisbon, Portugal)

Case 6 - Author: T.J. Martins Oliveira (Ribeirao, Portugal)

INDUSTRY PRACTICAL WORKSHOP
SEE PAGE 1

Grand round: Clinical Grand Round

Diffuse parenchymal lung diseases

Aims: To identify common and rarer diffuse parenchymal lung disorders (DPLD); and to learn about how the clinical profiles, laboratory features, physio-pathological impairments, imaging aspects and pathology in DPLD correlate with each other.
Symposium: State of the art session: Interstitial lung diseases

**Aims:** To provide an update on the most recent advances in the diagnosis, management and treatment of interstitial lung diseases (ILD). This session will mainly address clinical issues. Adequate time for discussion of each topic will be provided at the end of each presentation.

**Disease(s):** Interstitial lung diseases

**Method(s):** General respiratory patient care

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Adult pulmonologist/Clinician

**Chairs:** Ulrich Costabel (Essen, Germany), Vincent Cottin (Lyon, France)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Reference</th>
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<tbody>
<tr>
<td>14:45</td>
<td>Subacute respiratory failure with characteristic clinical and radiological features</td>
<td>Elisabetta Renzoni (London, United Kingdom)</td>
<td>4895</td>
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<tr>
<td>15:12</td>
<td>An acute onset with unexpected final diagnosis</td>
<td>Michael Kreuter (Heidelberg, Germany)</td>
<td>4896</td>
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<td>15:51</td>
<td>Cheerios in the lung</td>
<td>Sissel Kronborg-White (Lystrup, Denmark)</td>
<td>4897</td>
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<tr>
<td>16:18</td>
<td>A great mimicker</td>
<td>Dominique Israel-Biet (Paris, France)</td>
<td>4898</td>
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**Symposium: The digital ®evolution in respiratory medicine: a personalised approach?**

**Integration of m-health and e-health**

**Aims:** to stage a state-of-the-art symposium on the implications of digital technologies in asthma, tuberculosis, pulmonary rehabilitation, sleep and ventilation.

**Disease(s):** Airway diseases, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Physiology, Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Lowie Vanfleteren (Horn, Netherlands), Marta Almagro (Barcelona, Spain), Persijn Honkoop (Leiden, Netherlands)

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<tr>
<td>14:45</td>
<td>Asthma and myAirCoach</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
<td>4903</td>
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<td>15:15</td>
<td>The End TB Strategy</td>
<td>Dennis Falzon (Genève, Switzerland)</td>
<td>4904</td>
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Hot topics: Pathophysiology of the human lung alveolus
Development, diseases and in vitro modelling

Aims:
- The alveolus is the respiratory tissue that is located in the distal part of the airways. Numerous acute and chronic diseases associate with marked changes in the alveoli. Until recently, it was not possible to generate in vitro models of alveoli from primary or pluripotent stem cells. This significantly delayed our understanding of the biology of the lung alveolar epithelium. However, recent developments in tissue modelling have greatly advanced research on the development of the alveolar epithelium and its biology in health and disease, including pathologies of the distal airways such as acute lung injury, infections, emphysema, bronchopulmonary dysplasia, surfactant dysfunction and fibrosis. This session will provide attendees with an opportunity to learn about and discuss the latest information regarding the development of the human lung alveolus and the role of mesenchymal-epithelial cell interactions in this process, the in vitro modelling of the human lung alveolar epithelium using induced pluripotent stem cells and the regeneration of the lung alveolus.

Disease(s): Interstitial lung diseases, Thoracic oncology

Method(s): Cell and molecular biology

Tag(s): Basic science

Target audience: Clinical researcher, Critical/Intensive care physician, Pathologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Remi Villenave (Boston, United States of America), Pieter S. Hiemstra (Leiden, Netherlands)

14:45 The development of the human lung alveolus
Marko Nikolic (Cambridge (Cambridgeshire), United Kingdom)

15:15 Disrupted alveolar repair in COPD: lessons from patient studies and models systems
Melanie Konigshoff (Denver, United States of America)

15:45 Using induced pluripotent stem cells to model the human lung alveolar epithelium
Anjali Jacob (, United States of America)

16:15 The regeneration of the lung alveolus
William Zacharias (, United States of America)

Hot topics: Emerging tobacco products and harm reduction: a tobacco solution to a tobacco problem?

Aims:
- (i) To show how nicotine addiction maintains tobacco consumption and to explain the principles of harm reduction and their public health applications; (ii) to discuss causality in public health science and to review the evidence on the potential effects of heated tobacco products on human health; (iii) to raise awareness about the tactics of the tobacco industry, in particular how they have produced innovative tobacco products that are claimed to be less harmful, thereby deceiving the consumers about the health risks and addictiveness of tobacco products; (iv) to provide patient perspectives on emerging tobacco and nicotine products; (v) to highlight the leadership role and engagement of the ERS in controlling tobacco use and to present the ERS statement on harm reduction and emerging tobacco products.

Disease(s): Airway diseases, Paediatric respiratory diseases

Method(s): Epidemiology, Public health

Tag(s): Clinical

Target audience: Allergist, Clinical researcher, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiotherapist, Policy maker, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Sofia Belo Ravara (Covilhã, Portugal), Stephen Lequet (Paris, France), Isabel Saraiva (Cascais, Portugal)

14:45 Understanding nicotine addiction and the principles of harm reduction
Dimos Fotopoulos (Athens, Greece)

15:12 Health effects of heated tobacco products: what we do and do not know
Linnea Hedman (Luleå, Sweden)

15:39 How tobacco industry tactics have changed over time: effective regulation is needed
Elif Dagli (Istanbul, Turkey)
Session 494  14:45 - 16:45
Symposium: Lung cancer screening and management of solitary pulmonary nodules
Developing a joint and multidisciplinary approach
Aims: to provide a detailed update on the ongoing pivotal scientific debate about lung cancer screening with low dose computed
tomography in high risk groups and consequently the management of solitary pulmonary nodules. Experts from the relevant international
societies in this field will together provide a multidisciplinary perspective.

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology Endoscopy and interventional pulmonology Epidemiology General respiratory patient care
Imaging Pulmonary function testing Surgery
Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Lung function technologist, Nurse, Pathologist, Patient, Physiologist,
Physiotherapist, Policy maker, Radiologist, Scientist (basic, translational), Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult
pulmonologist/Clinician

Chairs: Mina Gaga (Athens, Greece), Paul E. Van Schil (Edegem (Antwerp), Belgium)

14:45  What the radiologist can offer - the latest imaging and evaluation techniques for lung cancer screening and comorbidities
Hans-Ulrich Kauczor (Heidelberg, Germany)

15:15  What the pneumologist can offer - rapidly evolving noninvasive and invasive diagnostic techniques
Dimitri Leduc (Bruxelles, Belgium)

15:45  Cut it away wisely! Thoracic surgery for the solitary pulmonary nodule
Gilbert Massard (Strasbourg, France)

16:15  Pulmonary nodules – incidental findings can we wait?
Gerard Silvestri (Charleston, United States of America)
Lung dendritic cells correlate to small airway abnormality & lung CD4+ T cells: SPIROMICS bronchoscopy study
Mohamed Kady (Ann Arbor, United States of America), Stephanie Christenson, Valerie Stolberg, Melissa Bates, Wassim Labaki, Neil Alexis, Igor Barjaktarevic, Graham Barr, Eugene Bleecker, Richard Boucher, Russell Bowler, Christopher Cooper, David Couper, Claire Doeschuk, Meilan Han, Nadia Hansel, Annette Hastie, Eric Hoffman, Robert Kaner, Fernando Martinez, Deborah Meyers, Wanda O'Neal, Robert Paine, Nirupama Putcha, Micheal Wells, Prescott Woodruff, Christine Freeman, Jeffrey Curtis

Circulating MDSC modulate IPF progression by orchestrating immunosuppressive and pro-fibrotic networks
Isis Enlil Fernandez (München, Germany), Flavia R. Greiffo, Riti Roi, Jürgen Behr, Alistair Forrest, Oliver Eickelberg

Type-2 CD8+ T lymphocytes responsive to PGD2/LTE4 in severe eosinophilic asthma
Timothy Hinks (Oxford, United Kingdom), Bart Hilvering, Linda Stoger, Emanuele Marchi, Maryam Salimi, Rahul Shrimanker, Wi Lu, Wentao Chen, Jian Luo, Simei Go, Timothy Powell, Jennifer Cane, Samantha Thulborn, Ayako Kurioka, Tianqi Leng, Jamie Matthews, Clare Connolly, Catherine Borg, Mona Bafadhel, Christian Willberg, Adaikalavan Ramasamy, Ratko Djukanovic, Graham Ogg, Ian Padvord, Luzheng Xue

Oral presentation: Interventional pulmonology highlights in 2018: ELVR, TLD and BT

Symposium: Malignant pleural effusions
Aims: To present the recently completed statement of the ERS task force on malignant pleural effusions and the primary results of AMPLE 2 and TAPPS, which are two recent randomised controlled trials on pleural malignancy. An update on the results of recent trials on the oncological management of mesothelioma will also be provided.

Use of Ventilation-Perfusion Single-Photon Emission Computed Tomography (VQ SPECT) to Select the Target Lobe for Endobronchial Valves Lung Volume Reduction (EBV-LVR)
Vanessa Sze Theen Tee (Adelaide (SA), Australia), Phan Nguyen, Dion Grosser, Hubertus Jersmann, Benjamin Crouch, Ghee Chew

Characterization of Chartis Phenotypes based on fissure completeness scores
Christoph Ruwwe-Glösenkamp (Berlin, Germany), Theilig Dorothea, Felix Döllinger, Temmesfeld-Wollbruck, Stefani Frenzel, Aschung Vallipour

Twelve-month positive outcomes of Zephyr endobronchial valves in severe emphysema patients: LIBERATE trial
Dirk-Jan Slebos (Groningen, Netherlands), Shawn Wright, Richard Sue, Mark Dransfield, Hiram Rivas-Perez, Tanya Wiese, Frank Sciera, Pallav Shah, Momen Wahidi, Hugo De Olivia, Brian Morrissey, Paulo Cardoso, Steven Hays, Adnan Majid, Nicholas Pastis, Lisa Kopas, Mark Vollenweider, Paul M. Mcfadden, Michael Machuzak, David Hsia, Arthur Sung, Nabil Jarad, Malgorzata Kornszewski, Stephen Hazelrigg, Ganesh Krishna, Nick Ten Hacken, Narinder Shargill, Gerard Criner

Airway smooth muscle mass reduction after Bronchial Thermoplasty in asthmatics correlates with FEV1.
Julia N.S. d'Hooghe (Amsterdam, Netherlands), Annika W.M. Goorsenberg, Dirk-Jan Slebos (Groningen, Netherlands), Shawn Wright, Richard Sue, Mark Dransfield, Hiram Rivas-Perez, Tanya Wiese, Frank Sciera, Pallav Shah, Momen Wahidi, Hugo De Olivia, Brian Morrissey, Paulo Cardoso, Steven Hays, Adnan Majid, Nicholas Pastis, Lisa Kopas, Mark Vollenweider, Paul M. Mcfadden, Michael Machuzak, David Hsia, Arthur Sung, Nabil Jarad, Malgorzata Kornszewski, Stephen Hazelrigg, Ganesh Krishna, Nick Ten Hacken, Narinder Shargill, Gerard Criner

Acute Airway Effects of Bronchial Thermoplasty Assessed by Optical Coherence Tomography (OCT)
Annika W.M. Goorsenberg (Amsterdam, Netherlands), Julia N.S. d'Hooghe, Daniel M. De Bruin, Inge A.H. Van Den Berk, Jouke T. Annema, Peter I. Bonta

Bronchodilator responsiveness as a success predictor for bronchial thermoplasty
David Langton (Frankston (VIC), Australia), Alvin Ing, David Fielding, Wei Wang, Virginia Plummer, Francis Thien
**Session 498**

**Oral presentation: Chronic thromboembolic pulmonary hypertension**

**Disease(s):** Pulmonary vascular diseases

**Method(s):** Physiology  Cell and molecular biology  Epidemiology  General respiratory patient care  Surgery

**Chairs:** Gérald Simonneau (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)

**OA4940**

**Late Breaking Abstract - Balloon Pulmonary Angioplasty for the Treatment of Non Operable Chronic Thromboembolic Pulmonary Hypertension – Initial experience of a Belgian Center**

Laurent Godinas (Leuven, Belgium), Bonne Lawrence, Budts Werner, Belge Catharina, Leys Mathias, Delcroix Marion, Maleux Geert

**OA4941**

**Pulmonary denervation is a new alternative non-pharmacological treatment for residual pulmonary hypertension after pulmonary endarterectomy**

Alexander Edemskiy (Novosibirsk, Russian Federation), Alexander Chernyavskiy, Boris Rudenko, Natalya Novikova, Alexander Romanov

**OA4942**

**Balloon pulmonary angioplasty (BPA) for inoperable chronic thromboembolic pulmonary hypertension (CTEPH)**

Xavier Jaïs (Le Kremlin-Bicêtre, France), Philippe Brenot, Yu Taniguchi, Carlos García, Olivier Planché, Benoit Gérardin, Sacha Musot, Olaf Mercier, Mitja Jevnikar, Laurent Savale, Florence Parent, Olivier Sitbon, David Montani, Marc Humbert, Elie Fadel, Gérald Simonneau

**OA4943**

**Survival in medically treated chronic thromboembolic pulmonary hypertension patients**

Marion Delcroix (Leuven, Belgium), Gerd Staehler, Henning Gall, Ekkehard Grünig, Matthias Held, Michael Halank, Hans Klose, Anton Vovk-Noordegraaf, Stephan Rosenkranz, Joanna Pepke-Zaba, Christian Opitz, Simon Gibbs, Tobias Lange, Iraklis Tsangaris, Doerte Huscher, Karen Olsson, Marius Hoeper

**OA4944**

**Factors associated with survival in patients with not-operated chronic thromboembolic pulmonary hypertension (CTEPH) in the modern management era**

Yu Taniguchi (Kobe, Japan), Xavier Jaïs, Athénaïs Boucly, Jason Weatherald, Mitja Jevnikar, Philippe Brenot, Olivier Planché, Florence Parent, Laurent Savale, Elie Fadel, David Montani, Gérald Simonneau, Marc Humbert, Olivier Sitbon

**OA4945**

**Macitentan in chronic thromboembolic pulmonary hypertension (CTEPH): experience from the OPUS registry**

Nick Kim (La Jolla, United States of America), Richard Chamnick, Vallerie Mclaughlin, John Mcconnell, David Poch, Monika Brand, Erwan Muros-Le Rouzie, Mona Selez, Kelly Chin

**OA4946**

**Endothelial progenitor cells in chronic thromboembolic pulmonary hypertension**

Keiko Yamamoto (Chiba, Japan), Rintaro Nishimura, Akira Naito, Fumiaki Kato, Rika Suda, Takayuki Jujo Sanada, Seiichiro Sakao, Nobuhiro Tanabe, Koichiro Tatsumi

**OA4947**

**Local inhibition of angiogenesis combined with repeated blood clot embolization induces chronic thromboembolic pulmonary hypertension in rabbits**

Rozenn Quarck (Leuven, Belgium), Allard Wagenaar, Birger Tielemans, Pedro Mendes-Ferreira, Frederic Perros, Peter Dorfmueller, Catharina Belge, Marion Delcroix
**Symposium: Early Career Member: career and opportunities**

**Aims**: This session is organized by the ERS Early Career Member Committee and aims to provide important insight into the critical steps for a successful future career in respiratory research and medicine; to give insight into new possibilities to transfer between academia and industry and how these have changed in the 21st century; to introduce the Early Career Member Committee and depict ways of how to get actively involved in the ERS; and to summarise the current fellowship offers from the ERS, with a shared personal experience of a recent fellowship recipient.

**Target audience**: Student, Trainee

**Chairs**: Rory Morty (Bad Nauheim, Germany), Isaac Almendros (Barcelona, Spain)

**Session 500  14:45 - 16:45**

14:45  **The ingredients for a successful career in the respiratory field: what every young investigator needs to know**

Liz Elvidge (London, United Kingdom)

15:05  **Transitions between academia and industry in the 21st century: changing the dogma**

Maria Gabriela Belvisi (Mölndal, Sweden)

15:25  **The Early Career Member Committee of the ERS**

Lieve Bos (Amsterdam, Netherlands)

15:45  **Overview of the ERS fellowship schemes**

Rory Morty (Bad Nauheim, Germany)

15:55  **Experience of a RESPIRE3 fellow**

Sara Rolandsson Enes (Burlington, United States of America)

16:05  **Panel Discussion**

Disease(s): Airway diseases, Respiratory infections

Method(s): Cell and molecular biology, Epidemiology, Respiratory intensive care, General respiratory patient care

Chairs: Menno M. van der Eerden (Rotterdam, Netherlands), Anne Bernadette Chang (Brisbane (QLD), Australia)

OA4948  **Antimicrobial peptides and airway bacterial colonization in bronchiectasis**

Oriol Sibila (Barcelona, Spain), Lidia Perea, Elisabet Cantó, Guillermo Suarez-Cuartin, Ana Rodrigo-Troyano, Leonardo Terranova, Martina Oriano, Jordi Giner, Silvia Vidal, Stefano Aliberti, James D Chalmers

OA4949  **Heterogeneous impact of sputum supernatant on neutrophil phagocytosis in bronchiectasis**

Holly Rachael Keir (Dundee (Angus), United Kingdom), Diane Cassidy, Megan Crichton, Simon Finch, James D Chalmers

OA4950  **Effects of gastro-oesophageal reflux and pulmonary micro-aspiration in bronchiectasis**

Melissa McDonnell (Oranmore (Co Galway), Ireland), Jeeban Das, Daniel O'Toole, Adil Aldrahani, Bernard Verdon, Matthew Wilcox, Jeffrey Pearson, James Lordan, Anthony De Soya, Najwa Sousi, James Chalmers, John Laffey, Michael Loebinger, Chris Ward, Robert Rutherford

OA4951  **Determinants of quality of life in bronchiectasis using the quality of life bronchiectasis (QOL-B) questionnaire: data from the EMBARC registry**

Eva Polverino (Barcelona, Spain), Francesco Blasi, Felix Ringshausen, Antony De Soya, Montserrat Vendrell, Pieter Goeminne, Wim Boersma, Charles Haworth, Marlene Murris, Katerina Dimakou, Michael Loebinger, Rosasio Menendez, Antoni Torres, Tobias Welte, Robert Wilson, Stuart Elborn, Stefano Aliberti, James Chalmers

OA4952  **Phenotypes in Bronchiectasis from the EMBARC India Registry**


OA4953  **The clinical impact of pseudomonas aeruginosa eradication in bronchiectasis in a Dutch center of expertise**

Menno M. van der Eerden (Rotterdam, Netherlands), A.L.P. Pieters, Marleen Bakker, R.A.S. Hoek, Josje Altenburg, J.G.J.V. Aerts

OA4954  **Reduction of pulmonary exacerbations in two phase 3 Trials: in-depth analyses**

Angela Davis (Durham, United States of America), David Cipolla, Angela Davis, Juergen Froehlich, Igor Gonda, Bruce Thompson
7.3P  Session 501  14:45 - 16:45

Oral presentation: Epidemiology, phenotypes and cardiometabolic comorbidities of obstructive sleep apnoea

Disease(s): Sleep and breathing disorders

Method(s): General respiratory patient care  Physiology  Epidemiology  Public health

Chairs: Jan A. Hedner (Göteborg, Sweden), Jean-Louis Pépin (Grenoble, France)

Late Breaking Abstract - European prevalence of OSA in adults: Estimation using currently available data
Atul Malhotra (La Jolla, United States of America), Raphael Heinzer, Mary J Morrell, Thomas Penzel, Jean-Louis Pépin, Kate Valentine, Carlos Nunez, Adam Benjaffelld

Hypoxia and cardiovascular comorbidity in the ESADA OSA patients with insomnia symptoms
Ulla Anttalainen (Paimio, Finland), Jan Hedner, Silke Ryan, Renata Riha, Ingo Fietze, Richard Staats, Ludger Grote, Tarja Saarersanta

Sleep determinants of incident hypertension in a population-based cohort: the CoLaus/HypnoLaus study
Raphael Heinzer (Lausanne, Switzerland), CAMILA HIROTSU, Pedro Marques-Vidal, Peter Vollenweider, Gérard Waeber, Monica Betta, Giulio Bernardi, Francesca Siclari, Jose Habá-Hubio

Mild obstructive sleep apnoea (OSA) and arterial hypertension in the EuropeanSleep Apnoea Database (ESADA) cohort study.
Izolde Bouloukaki (Heraklion (Crete), Greece), Paschalis Steiropoulos, Marisa Bonsignore, Walter McNicholas, Jan Hedner, Ludger Grote, Oreste Marrone, Johan Verbraecken, Ozen Basoglu, Gianfranco Parati, Carolina Lombardi, Athanasia Pataka, Sophia Schizis

Polysomnographic characteristics and cardiac function in coronary artery disease patients with nonsleepy obstructive sleep apnoea
Yuksel Peker (Istanbul, Turkey), Baran Balcan, Helena Glantz, Erik Thunström

Depression and response to CPAP treatment in coronary artery disease patients with sleepy vs nonsleepy obstructive sleep apnoea
Yuksel Peker (Istanbul, Turkey), Baran Balcan, Erik Thunström

THE ASSOCIATION OF BRAIN-DERIVED NEUROTROPHIC FACTOR GENE POLYMORPHISM WITH OBSTRUCTIVE SLEEP APNEA SYNDROME and OBESITY
Nuri Tutar (Kayseri, Turkey), Mehmet Yükselkaya, Munis DüNdar, Insu Yilmaz, Inci Gulmez, Fatma Sema Oymak, Burhan Balta, Keziban Korkmaz

Obstructive sleep apnea as risk factor for incident metabolic syndrome: a multicentric prospective epidemiological study
CAMILA HIROTSU (São Paulo, Brazil), Jose Haba-Hubio, Pedro Marques-Vidal, Sonia Togeiro, Peter Vollenweider, Gérard Waeber, Martin Preisig, Lia Bittencourt, Sergio Tufik, Raphael Heinzer

7.3L  Session 502  14:45 - 16:45

Poster discussion: Disease exacerbations from a molecular point of view

Disease(s): Respiratory infections  Airway diseases  Respiratory infections

Method(s): Imaging  Physiology  Cell and molecular biology

Chairs: Lydia Finney (London, United Kingdom), Jean-Michel Sallenave (Paris, France)

Serum hyaluronidase-1 is increased in COPD exacerbations and is associated with COPD severity and outcomes
Eleni Papakonstantinou (Thessaloniki, Greece), Ioannis Bonovolias, George Karakoulakis, Michael Tamm, Renaud Louis, Branslava Milenkovic, Wim Boersma, Konstantinos Kostikas, Francesco Blassi, Joachim Aerts, Gernot Rohde, Alicia Lakoma, Antoni Torres, Tobias Welye, Daiana Stolz

Modeling exacerbation using ozone exposure in COPD patients: CO3PD pilot study
Mehrdad Arjomandi (San Francisco, United States of America), Sreelakshmi Vasudevan, Hofer Wong, Sarah Dalton, Siyang Zeng

Investigation of the very early immune response in viral induced experimental asthma exacerbation
Rebecca Bodenstein-Sgro (Borstel, Germany), Sina Webering, Michael Wegmann

Club cell secretory protein: a key mediator in Mycoplasma pneumoniae infection.
Julie Ledford (Tucson, United States of America), Stefano Guerra, Fernando Martinez, Monica Kraft

Host defence functions of BPIF1A against Non-typeable Haemophilus influenzae
Renata Caikauskate (Sheffield (South Yorkshire), United Kingdom), Apoorva Mulay, Derek Hood, Steve Brown, James Stewart, Lynne Bingle, Colin Bingle
<table>
<thead>
<tr>
<th>PA4974</th>
<th>Murine model for investigating virus-induced exacerbations of COPD-related inflammation – preclinical biomarker validation</th>
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<tr>
<td>Martin Wolff (Sülfeld, Germany), Natalia El-Merhie, Sabine Bartel, Heinz Fehrenbach, Sebastian Reuter, Susanne Krauss-Etschmann</td>
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<th>PA4975</th>
<th>Microarray analysis of poly(I:C) and IL-13 co-stimulated human airway epithelium</th>
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<tr>
<td>Johanna Christine Ehlers (Borstel, Germany), Christina Vock, Heinz Fehrenbach</td>
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<th>PA4976</th>
<th>Human rhinovirus 16 infection of human macrophages impairs internalisation via disrupting the actin cytoskeleton</th>
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<tr>
<th>PA4977</th>
<th>Human rhinovirus 16 infection of human macrophages impairs their clearance ability by perturbing phagosome maturation</th>
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<tr>
<th>PA4978</th>
<th>Effect of Hypertonic Saline Solution on cultures of human respiratory epithelium infected by respiratory syncytial virus</th>
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<tr>
<td>Juan Manuel Figueroa (Ciudad Autónoma Buenos Aires, Argentina), Doris Primrose, Andrea Vdugour, Valeria Ochoa, Julieta Bitler, Fernando Erra Diaz</td>
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<th>PA4979</th>
<th>Impairment of respiratory host defence resulting from cigarette smoke-induced changes in airway epithelial cell differentiation</th>
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<tr>
<td>Anne M. van der Does (Leiden, Netherlands), Gimano D. Amatngalim, Jasmijn A. Schrumpf, Fernanda Dishchekanen, Tinne C.J. Mertens, Dennis K. Ninaber, Abraham C. Van Der Linden, Charles Pilette, Christian Taube, Pieter S. Hiemstra</td>
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<tr>
<th>PA4980</th>
<th>Cigarette smoke extracts decrease basal and lipopolysaccharide-induced expression of macrophage receptor with collagenous structure via degradation of p300</th>
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<tr>
<td>KYOUNG-HEE LEE (SEOUL, Republic of Korea), Chang-Hoon Lee, Chul-Gyu Yoo</td>
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<th>PA4981</th>
<th>The activation of NLRP3 inflammasome pathway in COPD is limited in local airways</th>
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<tr>
<td>Juan-Juan Fu (Chengdu (Sichuan), China), Bing Mao, Sheng-Jun Wang, Wei Xiao, Guan-Hong Li, Li-Hua Wu</td>
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<th>PA4982</th>
<th>The effect of double-stranded RNA on extracellular matrix deposition in an in vitro model of the airway mucosa</th>
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<td>Chiara Banas (Southampton (Hampshire), United Kingdom), Alison R Hill, Cornelia Blume, Donna Davies, Emily Swindle</td>
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<tr>
<th>PA4983</th>
<th>The effect of dietary fatty acids on respiratory infection in human lung cells</th>
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<td>Sandra Rutting (Sydney (NSW), Australia), Jay Horvat, Lisa Wood, Phil Hansbro, Brian Oliver</td>
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<th>PA4984</th>
<th>Pseudomonas aeruginosa LasB subverts innate immunity in alveolar macrophages and epithelial cells</th>
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<td>Saadé Kheir (Paris, France), Bérengère Villeret, Nicolas Serafini, Romé Voulhoux, Ignacio Garcia Verdugo, James Di Santo, Jean-Michel Sallenave</td>
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<th>PA4985</th>
<th>BPI Fold Containing Family A Member 1 (BPIFA1) regulates mucosal microbiota and basal Interferon signaling</th>
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<tr>
<td>Clemente Britto (New Haven, United States of America), Sara Khanal, Bejamin Wu, Yonghua Li, Leopoldo Segal</td>
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<th>PA4986</th>
<th>Blocking IL-20 pathway limits the development of bacteria induced exacerbation in mice chronically exposed to cigarette smoke.</th>
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<tr>
<td>Bachirou Koné (Lille, France), Fahima Madouri, Olivia Barada, Gwenola Kervoaze, Eva Vilain, Muriel Pichavant, Phillipp Gosset</td>
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**Terminal 7**  **Session 503**  **14:45 - 16:45**

**Oral presentation: Cystic fibrosis: diagnosis and monitoring**

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections

**Method(s):** Imaging, General respiratory patient care, Physiology

**Chairs:** Alex Horsley (Manchester, United Kingdom), Laurie Smith (Sheffield (South Yorkshire), United Kingdom)

**OA4987**  **Do deviations in tidal breathing impact multiple breath washout measurements?**

| Renee Jensen (Toronto (ON), Canada), Reginald McDonald, Sanja Stanjevic, Felix Ratjen |

**OA4988**  **Lung clearance index and lung ultrasound in cystic fibrosis children**

| Ioana Mihaia Ciucu (Timisoara (Timis), Romania), Mihaela Dediu, Liviu Laurentiu Pop |

**OA4989**  **Repeatability of ventilation and perfusion assessment by functional MRI in children with CF**

| Sylvia Nyilas (Bern, Switzerland), Grzegorz Bauman, Orso Pusterla, Enno Stranzinger, Kathryn Ramsey, Florian Singer, Sophie Yamine, Carmen Casaulta, Oliver Bieri, Philipp Latzín |
The effect of inhaled lung volume on ventilation heterogeneity in CF using 3He MRI
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Guilhem Collier, Helen Marshall, Paul Hughes, Jody Bray, Oliver Rodgers, Ina Aldag, Noreen West, Martin Wildman, Alex Horsley, Jim Wild

Comparison between the 1-minute sit-to-stand test and quadriceps strength in patients with cystic fibrosis
Sophie Hardy (Gembloux, Belgium), Silvia Berardis, Gregory Reychler, Sophie Gohy

Glycaemic variability indices are associated with increased pulmonary function decline in people with cystic fibrosis
Freddy Frost (Liverpool, United Kingdom), Paula Dyce, Dennis Wat, Martin Walshaw, Dilip Nazareth

Poster discussion: Understanding the immunopathology that underlies airway obstructive diseases

Disease(s): Airway diseases, Respiratory infections
Method(s): Imaging, Physiology, General respiratory patient care, Cell and molecular biology
Chairs: Sven-Erik Dahlén (Stockholm, Sweden), Christian Taube (Essen, Germany)

Increased pro-inflammatory regulatory T Cells correlate with the plasticity of T helper cell differentiation in asthma
Jia Hou (, China), Lei Xin, Junjie Gao, Chengxuan Tian, Weirong Ma, Zhigang Tian, Xiwei Zheng

Th-17 cytokine profile in a Greek asthmatic population. Correlation with asthma severity and biomarkers of inflammation.
Kalliopi Domvri (Thessaloniki, Greece), Konstantinos Porpodis, Georgios Tzimagiorgis, Fani Chatzopoulou, Despoina Ioannidou, Evangelia Fouka, Georgios Kyriazis, Theodoros Kontakiotis, Despoina Papakosta

FOXP3 genetic variants are associated with asthma severity in Brazilian women.
Norma Carneiro (Salvador/BA, Brazil), Camila Figueiredo, Bianca Fiuza, Hugo Da Silva, Raimon Da Silva, Tamires Carneiro, Milca Silva, Valdirene Carneiro, Ryan Costa, Jamille Fernandes, Luciana Cardoso, Alvaro Cruz Filho, Hellen Freitas

Variants in IL17A and IL17F are risk factors to uncontrolled asthma
Camila Figueiredo (Salvador (BA), Brazil), Milca Santos, Icanaã Brandão, Hellen Fonseca, Emilia Medeiros, Luciana Cardoso, Jamille Fernandes, Roberta Espinheira, Neusa Alcantara-Neves, Alvaro Cruz, Ryan Costa

The new approach to understand the role of IL-15 and BMP proteins in asthma remodelling based on methacholine challenge test evidence.
Marcelina Koćwin (Łódź, Poland), Mateusz Jonakowski, Lukasz Mokros, Michal Panek, Janusz Szemraj, Piotr Kuna

Unraveling the role of miR-223-3p in the regulation of airway inflammation in asthma
Mirjam P. Roffel (Groningen, Netherlands), Ilse Boudewijn, Victor Guryev, Corry-Anke Brandsma, Maarten Van Den Berge, Ken Bracke, Tania Maes, Irene Heijink

Mechanisms of impaired anti-bacterial Th1 responses in patients with chronic obstructive pulmonary disease
Dino Tan (Perth (WA), Australia), Dave Singh, Haydn Walters, Peter Wark, Yuben Moodley

Inflammatory mediators in eosinophilic COPD phenotype and asthma with fixed airflow obstruction
Jitsupa Onnipa (Bangkok, Thailand), Therasuk Kawamatawong, Dhanesh Pitidhammbhorn, Chavachol Setthaudom

A novel house dust mite-induced asthma model in guinea pigs driven by mast cells
Patricia Ramos Ramirez (Stockholm, Sweden), Malin Noreby, Jielu Liu, Joshua Gregory, Anne Pettrén, Henrie K. Olsson, Gunnar Nilsson, Sven-Erik Dahlén, Mikael Adner

Mast cell tryptase induce alarmin release and secretion of pro-inflammatory cytokines from bronchial epithelial cells
Sangeetha Ramu (Lund, Sweden), Leif Bjerner, Jonas Erjefält, Lena Uller, Cecilia Andersson

Dupilumab shows rapid and sustained suppression of inflammatory biomarkers in corticosteroid (CS)-dependent severe asthma patients in LIBERTY ASThma VENTURE
Klaus F. Rabe (Grosshsandorf, Germany), Guy Brusselle, Mario Castro, Lawrence Sher, Hongsie Zhu, Qunning Dong, Jennifer D. Hamilton, William Brian, Alexandre Jagerschmidt, Gianluca Pirozzi, Nikhil Amin, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper

Dupilumab improves mental health measures in patients with chronic rhinosinusitis and nasal polyposis (CRSwNP)
Asif Khan (Chilly-Mazarin, France), Claus Bachert, Robert Naclerio, Peter Hellings, Sophie Guillonneau, Christine Taniou, Jaman Maroni, Paul Rowe, Leda Mannon, Nikhil Amin, Siddhesh Kamat
**Session 505**

**Poster discussion: Primary ciliary dyskinesia and lung function tests in respiratory morbidities**

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections

**Method(s):** Physiology, Surgery, Public health, General respiratory patient care, Epidemiology

**Chairs:** Liesbeth Duijits (Rotterdam, Netherlands), Myrofora Goutaki (Bern, Switzerland)

**PA5005**
**Dupilumab shows rapid and sustained suppression of inflammatory biomarkers in asthma patients in LIBERTY ASThma Quest**
Sally Wenzel (Pittsburgh, United States of America), Ian D. Pavord, Klaus F. Rabe, Alberto Papi, J. Mark Fitzgerald, Alexandre Jagerschmidt, William Brian, Qunming Dong, Brian N. Swanson, Jennifer D. Hamilton, Nikhil Amin, Gianluca Pirozzi, Marcella Ruddy, Bolanle Akinlade, Neil M. H. Graham, Ariel Teper

**PA5006**
**Triple combination of montelukast or tiotropium and inhaled corticosteroids plus long-acting β2-agonist in persistent asthma**
Makoto Hoshino (Atami, Japan), Kenta Akitsu, Junichi Ohtawa

**PA5007**
**Safety profile of a novel peptide, PIN201104, with potential to act as a disease modifying, broad spectrum treatment for asthma**
Jeanette Watson (Stevenage (Hertfordshire), United Kingdom), Donata Federici-Canova, Nicky Cooper, Clare Burgess

**PA5008**
**Bacterial lysates in the prevention of asthma exacerbations in uncontrolled asthma: the Breathe study**
Geertje M. de Boer (Rhoon, Netherlands), Gert-Jan Braunstahl, Rudi W. Hendriks, Gerritje Soja, Krzysztof Sladek

**PA5009**
**The effect of Mepolizumab for not completely satisfied Omalizumab treated asthmatics.**
Motokazu Kato (Osaka, Japan)

**PA5010**
**Bronchoalveolar lavage transcriptome and eicosanoid profiles reveal heterogeneity of lower airway inflammation in aspirin-exacerbated respiratory disease (AERD)**
Grażyna Bochenek (Kraków, Poland), Bogdan Jakiela, Anna Gielicz, Hanna Plutecka, Marek Przybyszowski, Jerzy Soja, Krzysztof Sladek

**7.2B**

**Interest Area:**

**Poster discussion:** Primary ciliary dyskinesia and lung function tests in respiratory morbidities

**Disease(s):** Respiratory infections, Airway diseases, Respiratory infections

**Method(s):** Physiology, Surgery, Public health, General respiratory patient care, Epidemiology

**Chairs:** Liesbeth Duijits (Rotterdam, Netherlands), Myrofora Goutaki (Bern, Switzerland)

**PA5011**
**Do changes in spirometric indices and FeNO predict asthma outcomes in children? An individual patient data analysis using results from seven FeNO trials**
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Shona Fielding, Marielle Pijnenburg, Johan De Jongste, Katy Pike, Graham Roberts, Helen Petsky, Anne Chang, Maria Fritsch, Thomas Frischer, Stan Szefler, Peter Gergen, Françoise Vermeulen, Robin Vael

**PA5012**
**Reduced first trimester fetal size and asthma outcomes to age 29 years – results from a “virtual” birth cohort**
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Lorna Aucott

**PA5013**
**Associations of maternal Chlamydia trachomatis infection with wheezing, lung function and asthma in children.**
Evelien R. van Meel (Rotterdam, Netherlands), Marina Attanasi, Irwin K. Reiss, Henriëtte A. Moll, Johan C. De Jongste, Vincent W. V. Jaddoe, Liesbeth Duijits

**PA5014**
**Lung function and oral health in adolescents**
Joachim Heinrich (München, Germany), Elisabeth Thiering, Rudolf Jörres, Holger Schulz, Jan Kühnish, Marie Standl

**PA5015**
**Prenatal exposure to organochlorine compounds and lung function until early adulthood**
Maribel Casas (Barcelona, Spain), Maribel Casas, Alicia Abellan, Raquel Garcia, Maties Torrent, Céline Roda, Mireia Gascón, Amparo Ferrero, Maria-Jose Lopez-Espinosa, Carlos Zabaleta, Mikel Basterrechea, Joan Grimalt, Judith Garcia-Aymerich, Martine Vrijheid, Jordi Sunyer

**PA5016**
**Prenatal exposure to perfluoroalkyl substances and immune and respiratory outcomes**
Maribel Casas (Barcelona, Spain), Cynthia B. Manzano-Salgado, Berit Granum, Maria-Jose Lopez-Espinosa, Ferran Ballester, Carmen Iñiguez, Mireia Gascon, David Martinez, Mónica Guexins, Mikel Basterrechea, Carlos Zabaleta, Thomas Schettgen, Jordi Sunyer, Martine Vrijheid

**PA5017**
**Longitudinal changes in spirometry in perinatally HIV-infected adolescents on antiretroviral therapy in Cape Town, South Africa**
Leah Githinji (Cape Town, South Africa), Diane Gray, Sipho Hlengwa, Takwansa Machemedze, Landon Myer, Heather Joy Zar

**PA5018**
**Associations between early life exposure to pollen and adolescent lung function are modified by residential greenness**
Katrina Anne Lambert (Bundoora, Australia), Caroline Lodge, Luke A Prendergast, Gayan Bowatte, Adrian Lowe, Matthias Wjst, Michael J Abramson, Shyamali C Dharmage, Bircan Erbas
### PA5019
Prevalence of exercise-induced bronchoconstriction and exercise-induced laryngeal obstruction in adolescents attending national sports high school
Henrik Johansson (Uppsala, Sweden), Karin Ersson, Andrei Malinovschi, Elisabet Mallmin, Katarina Norlander, Leif Nordang

### PA5020
Infant lower respiratory tract illness reduces lung function at 2 years in African children
Diane Gray (Cape Town, South Africa), Lidiya Turkovic, Lauren Mcmillan, Carvern Jacobs, Jacobus A. Stanler, Aneesa Vanker, Zoltan Hantos, Doretyta Zcovek, Peter D. Sly, Graham L. Hall, Heather J. Zar

### PA5021
Neonatal manifestations in Primary Ciliary Dyskinesia: a multinational cohort study
Myrofora Goutaki (Bern, Switzerland), Florian S. Halbeisen, Agatha C. Wisse, Israel Amirav, Angelo Barbato, Carmen Casaula, Suzanne Crowley, Eric G. Haarman, Robert A. Hirst, Bulent Karadag, Jane S. Lucas, Lucy Morgan, Ugur Ozcelik, Santiago Ucrós, Panayiotis Yiallfournos, Zorica Zivkovic, Philipp Latzin, Claudia E. Kuehni

### PA5022
Accuracy of high-speed video microscopy to diagnose primary ciliary dyskinesia
Bruna Rubbo (Southampton (Hampshire), United Kingdom), Robert A. Hirst, James Thompson, Joseph Hayes, Emily Frost, Fiona Copeland, Christopher O'Callaghan, Claire Hogg, Jane S. Lucas

### PA5023
Prevalence and Impact of Lung Resection in Primary Ciliary Dyskinesia: a cohort and nested case-control study

### PA5024
Clinical features & management of 334 children with primary ciliary dyskinesia in the English National Cohort
Woolf Walker (Southampton (Hampshire), United Kingdom), Bruna Rubbo, Sunayna Best, Robert Hirst, Florian Galileitner, Siobhan B. Carr, Philip Chetcuti, Claire Hogg, Prifi Kenia, Jane S. Lucas, Eduardo Moya, Manjith Narayanan, Christopher O'Callaghan, Michael Williamson

### PA5025
Measurement of volatile organic compounds in exhaled breath of children of the ALL Age Asthma Cohort
Oliver Fuchs (Bern, Switzerland), Maximilian Ehrmann, Erika Von Mutius, Gesine Hansen, Matthias Kopp, Jens M. Hohlfeld, Olaf Holz

### PA5026
Early life home indoor bacterial and fungal microbiota measured with amplicon sequencing and risk of asthma by the age of 10.5 years
Juha Pekkanen (Helsingin yliopisto, Finland), Martin TäUbel, Pirkka Kirjavainen, Anne Hyvärinen, Sami Remes, Erika Von Mutius, Anne Karvonen, Paul Mercier (paul.mercier@ucl.ac.uk / UCL, London), Rachel Chambers (r.chambers@ucl.ac.uk / UCL, London)

### PA5027
An observational study of incident diagnoses of children’s diffuse parenchymal lung disease (ChILD/EU)
Steve Cunningham (Edinburgh (Nicolstia), Cyprus), Cat Graham, Morag Maclean, Paul Aurora, Michael Ashworth, Alistair Calde, Annick Clement, Meike Hengste, Nural Kiper, Katarzyna Krenke, Joanna Lange, Andrew Nicholson, Simone Reu, Deborah Snijders, Andrew Bush, Nico Schwerp, Matthias Griese

### PA5028
Symptoms of vocal cord paresis among children born extremely premature with- or without PDA ligation. A Norwegian national cohort study.
Merete S. Engeseth (Bergen, Norway), Silje Mæland, Hege Clemm, Maria Vollseter, Mette Engan, Thomas Halvorsen, Ola Røksund

### 7.2C Session 506
**Poster discussion: Clinical determinants of asthma and biomarkers**

**Disease(s):** Airway diseases, Respiratory infections, Respiratory infections

**Method(s):** Public health, Endoscopy and interventional pulmonology, Epidemiology, Physiology, General respiratory patient care, Cell and molecular biology

**Chairs:** Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy), Andras Bikov (Budapest, Hungary)

**PA5029** Late onset asthma: A distinct phenotype
Anastasia Papapoyryou (Mandra, Greece), Georgios Hillas, Andriana Papaioanou, Konstantinos Kostikas, Elissavet Konstantelou, Elieni Tseliou, Nikolaos Koulouris, Spyridon Papiris, Petros Bakakos, Stelios Loukides

**PA5030** Clustering of adherence variability metrics and clinical outcomes in asthma
Helen Reddel (Sydney (NSW), Australia), Jacqueline Huvanandana, Chinh Nguyen, Juliet Foster, Urs Frey, Cindy Thamrin

**PA5031** New-onset asthma in adults; does the trigger predict outcome?
Hanneke Coumou (Amsterdam, Netherlands), Guus Westerhof, Selma De Nijs, Marijke Amelink, Elisabeth Bel
Treatment of multimorbid asthma patients in structured care. Results from the Disease Management Program (DMP) Bronchial Asthma in the North Rhine region in Germany.
Arne Weber (Köln, Germany), Sabine Groos, Jens Kretschmann, Christine Macare, Bernd Hagen

Sputum eosinophils vary by time of day in severe asthma: Implications for management
Gael Tavernier (Manchester (Greater Manchester), United Kingdom), Steve J Fowler, Dave Allen, Angela Simpson, Hannah Durrington, Robert Niven

Analysis of wheezing in patients with partially controlled bronchial asthma during intrabronchial auscultation
Irina Ponomareva (Ryazan, Russian Federation), Vladimir Abrosimov, Sergei Glotov, Yuriy Petrov

Healthcare resource utilisation (HRU) in the Asthma Salford Lung Study (SLS asthma)
Dominy Browning (London, United Kingdom), Nawar Diar Bakerly, John P New, Norman Stein, Henrik Svendsater, David A Leather, James Lay-Flurrie, Joanne Fletcher

Serum Surfactant Protein D is decreased by oral steroids in asthma but not COPD
Rose-Marie Mackay (Southampton (Hampshire), United Kingdom), Howard Clark, Laurie Lau, Anna James, Maciej Kupczyk, Sven-Erik Dahlén, Hakan Arast

Small airway dysfunction in asthma: a real life study
Alvise Berti (Milan, Italy), Anita Licini, Carlo Lombardi, Marcello Cottini

Reduced lung function and exhaled lining fluid from small airways
Jeong-Lim Lim (Gothenburg, Sweden), Emilia Viklund, Helen Friberg, Hatti Koca Akdeva, Anna-Carin Olin

Effects of physiological variation on parameter estimates in a dynamic model of FeNO
Patrick Muchmore (Pasadena, United States of America), Sandrah Eckel, Edward Rappaport, Yue Zhang, Erika Garcia, Kiroos Berhane, William Linn, Noa Molshatski, Rima Habre, Frank Gilliland

Effects of aerobic exercise on asthma control in eosinophilic asthma patients: a randomized controlled trial
Annie-Claude Jalbert (Montréal (QC), Canada), Kim Lavoie, Simon Bacon

Treatment decisions with an exhaled nitric oxide (eNO)-based algorithm vs a symptoms-based algorithm for asthma in pregnancy
Vanessa E. Murphy (Callaghan, Australia), Heather Powell, Celeste Porsbjerg, Peter Gibson

Identification of treatable traits in a severe asthma registry: prevalence and exacerbation predictors
Vanessa M. McDonald (Newcastle (NSW), Australia), Sarah A. Hiles, Kristelle Godbout, Erin S. Harvey, Guy B. Marks, Mark Hew, Matthew Peters, Philip Bardin, Paul N. Reynolds, John W. Upham, Melissa Barakat, Zahaerodin Bho, Jeffrey Bowden, Ben Brockway, Li Ping Chung, Belinda Cochrane, Gloria Foxley, Jeffrey Garrett, Lata Jayaram, Christina Jenkins, Constance Katelaris, Gregory Katsoulotos, Mariko S. Koh, Vicky Kritikos, Marina Lambert, David Langton, Alexis Lara Rivero, Peter Middleton, Aldoph Nangzuzambo, Naghmeh Radhakrishna, Helen Reddel, Janet Rimmer, Anne Marie Southcot, Michael Sutherland, Francis Thien, Peter Wark, Ian A. Yang, Elaine Yap, Peter G. Gibson

Evaluation of inflammatory markers MMP-2 and TIMP-1 in Asthma
Kirankumar Sivakoti (Mysyalaguda, India), Chaya S.K, Jayaraj B.S, Lokesh K.S, Vivek Vardhan Veerapaneni, Subbara Madhunapantula, Mahesh Pa

Small airway dysfunction in elderly patient with asthma: a real life study
Alvise Berti (Milan, Italy), Anita Licini, Carlo Lombardi, Marcello Cottini

Asthma control and asthma severity in relation to sleep disturbances: Results of the LifeGene study
Fredrik Sundbom (Uppsala, Sweden), Andrei Malinovski, Eva Lindberg, Catarina Almqvist, Christer Janson

**Poster discussion: Biomarkers and lung function in airway disease**

**Disease(s):** Airway diseases

**Method(s):** Epidemiology, Cell and molecular biology, General respiratory patient care, Physiology, Imaging

**Chairs:** Arschang Valipour (Wien, Austria), Andre Nyberg (Umeå, Sweden)

Late Breaking Abstract - Influence of omalizumab therapy on airway remodelling assessed with high-resolution computed tomography (HRCT) in severe allergic asthma patients
Marek Przybyłowsky (Kraków, Poland), Kinga Paciorek, Weronika Zastrzezynska, Agnieszka Gawlewicz-Mrocza, Anna Trojan-Krolikowska, Anna Orłowska, Jerzy Soja, Wiesław Pawlik, Krzysztof Sładek
Session 508 14:45 - 16:45

Poster discussion: Occupational and environmental lung diseases: air quality and lung damage

**Disease(s):**
- Airway diseases
- Interstitial lung diseases

**Method(s):**
- Respiratory intensive care
- Cell and molecular biology
- General respiratory patient care
- Public health
- Epidemiology

**Chairs:** Isabella Annesi Maesano (Paris, France), Rafael E. de la Hoz (New York, United States of America)

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PA5048  The two sides’ view of asthma-COPD overlap: a real life population approach.
Núria Toledo Pons (Palma De Mallorca, Spain), Job F.M. Van Boven, Miguel Román-Rodriguez, José Luis Valera, Aina Millán Pons, Borja B. Cosío

PA5049  Airways mucus pathogenesis in patients with non-cystic fibrosis bronchiectasis
Kathryn Ramsey (Bern, Switzerland), Giorgia Radicioni, David Hill, Camille Ehre, Brian Button, Neil E Alexis, Michael Knowles, Scott Donaldson, Mehmet Kesimer, Michael Mcguckin, Richard Boucher

PA5050  Associations between PCD-specific health-related quality of life (QOL-PCD) outcomes and clinical measures
Helene Kobbermagel (København Ø, Denmark), Frederik F. Buchwald, Laura Behan, Jane S. Lucas, Eric G. Haarman, Niels W. Rutjes, Anika Gross, Heinmut Omran, Claire Hogg, Carmen Casaulta, Claudia E. Kuehni, Samuel A. Collins, Maria C. Philipsen, Alexandra L. Quittner, Kim G. Nielsen

PA5051  Change of mucus rheology in patients with Cystic Fibrosis, COPD and Asthma
Jeremy PATARIN (Saint Martin D'Heres, France), Etienne Ghiringhelli, Claire Cracowski, Boubou Camara, Sebastien Quetant, Cécile Bosc, Christophe Pison, Jean-Luc Cracowski

PA5052  Prognostic value of FeNO-guided assessment to identify steroid-responsive respiratory symptoms
Josh Brewin (Oxford, United Kingdom), Kay Wang, Jan Verbakel, Alex Fleming-Nouri, Jason Oke, Ian Pavord, Mike Thomas

PA5053  Transforming growth factor-ß1 and Matrix Metalloproteinase-9 as factors of airway remodeling among asthmatic patients
Vladyslava Kmyta (Sumy, Ukraine), Liudmyla Prystupa

PA5054  The Inhaler Proficiency Score: a useful and valid tool for the assessment of good inhaler technique
Breda Cushen (Dublin 1, Ireland), Garrett Greene, Fiona Lannon, Seamus Cowman, Lisa Mellon, Richard W Costello, Elaine Mac Hale

PA5055  Clinical relevance of small airways assessment by lung function tests in asthma
Chloé Depoortère (Phalempin, France), Thierry Perez, Cécile Chenivesse, Stéphanie Fry

PA5056  Xenon-enhanced magnetic resonance imaging to understand particle exhalation from the human lung
Olaf Holz (Hannover, Germany), Agilo Kern, Heike Biller, Anna-Carin Olin, Jens Vogel-Claussen, Jens M. Hohlfeld

PA5057  Comparison between Impulse oscillometry and Resmon Pro and the use of inspiratory parameters
Linnea Jarenbäck (Gantofta, Sweden), Leif Bjermer, Ellen Tufvesson

PA5058  FEV1/FEV3 ratio as an alternative to fixed ratio of FEV1/FVC
Adam Białoś (Łódź, Poland), Kamil Kornicki, Maciej Ciebiada, Joanna Milkowska - Dymanowska, Wojciech Piotrowski, Adam Antczak, Pawel Gorski

PA5059  Ordinal scales are not accurate to assess and measure respiratory rates in children
Will Daw (Sheffield (South Yorkshire), United Kingdom), Ruth Kingshott, Heather Elphick

PA5060  Serum levels of IL-5, IL-6 and IL-8 in moderate and severe asthma clusters
Denitsa Dimitrova (Sofia, Bulgaria), Vania Youroukova, Tsvetelina Velikova, Kalina Tumangelova-Yuzeir

PA5061  Biomarker-assisted characterisation of non-type 2 disease in young asthmatics
Nikolaos Tsolakis (Uppsala, Sweden), Andrei Malinovschi, Christer Janson, Kjell Alvin

PA5062  Blood eosinophils and exacerbation rate in COPD patients over three years
Robson Aparecido Prudente (Botucatu (SP), Brazil), Carolina Mesquita, Renata Ferrari, Estefânia Franco, Suzana Tanni

PA5063  Ergoreflex and the method of assessing the functional status in patients with COPD
Irina Ponomareva (Ryazan, Russian Federation), Alexey Kosyakov, Vladimir Abrosimov

PA5064  Prognostic factors in severe eosinophilic asthma
Filipe Gonçalves Dos Santos Carvalho (Barcelona, Spain), Clara Padró Casas, Maria Basagaña Torrento, Marisa Rivera Ortun, María Del Mar Martínez Colls, Carlos Pollan Guisasola, Alicia Francois Vicente, Eva Martínez Cáceres, Aina Teniente, Albert Roger, Juan Ruiz Manzano, Carlos Martinez Rivera
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<tr>
<th>PA5065</th>
<th>Doctor diagnosed asthma and wheeze among Chinese pre-school children in relation to indoor and outdoor air pollution and urbanization</th>
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<td></td>
<td>Dan Norback (Uppsala, Sweden), Chan Lu, Juan Wang, Yingping Zhang, Baizhan Li, Zhozhui Zhao, Chen Huang, Xin Zhang, Hua Qian, Yuexia Sun, Jan Sundell, Qihong Deng</td>
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<th>PA5067</th>
<th>Relationships between nitrogen dioxide exposure, post-bronchodilator airflow obstruction and gas transfer in middle-age</th>
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<tr>
<td></td>
<td>Jennifer Perret (Melbourne (VIC), Australia), Gayan Bowatte, Luke Knibbs, David Johns, Caroline Lodge, Adrian Lowe, Dinh Bui, Melanie Matheson, Bruce Thompson, Stephen Morrison, Graham Giles, E Haydn Walters, Michael Abramson, Shyamali Dharmage</td>
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<th>PA5068</th>
<th>Occupational and environmental risk factors for Idiopathic Pulmonary Fibrosis in Australia</th>
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<td></td>
<td>Michael J. Abramson (Melbourne (VIC), Australia), Tsitsi Murambadoro, Sheik M. Alif, Geza Benke, Shyamali Dharmage, Ian Glaspo, Peter Hopkins, Ryan Hoy, Sonja Klebe, Yuben Moodley, Shuli Rawson, Paul Reynolds, Rory Wolfe, E. Haydn Walters, Tamera J. Corte, F O R The Australian I.P.F. Registry</td>
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<th>PA5069</th>
<th>Diastolic blood pressure effect of traffic-related air pollution: a trial of vehicle filtration</th>
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<td></td>
<td>Joel Kaufman (Seattle, United States of America), Michael Young, Karen Jansen, Tim Gould, Coralynn Sack, Laura Hooper, Jim Stewart, Tim Larson, Sverre Vedal</td>
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<tr>
<th>PA5070</th>
<th>Controlled human exposure study of diesel exhaust on older volunteers with and without COPD</th>
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<td>Min Hyung Ryu (Vancouver (BC), Canada), Denise Wooding, Naifee Syed, Jordan Guenette, Christopher Carlsten</td>
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<tr>
<th>PA5071</th>
<th>Atmospheric simulation chamber: a versatile tool to get a comprehensive understanding of Air Quality impacts on health in preclinical models</th>
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<td>Maeva Zysman (Montreuil, France), Marie-Laure Franco-Montoya, Audrey Der Vartanian, Mathieu Cazenau, Maria Pini, Jean-Francois Dosourn, Audrey Ridoux, Sophie Hue, Frederic Relaix, Genevieve Derumeaux, Jorge Boczkowski, Sophie Lanone</td>
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<th>PA5072</th>
<th>Airborne pollen concentrations and daily respiratory disease mortality</th>
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<td></td>
<td>Jouini J.K. Jaakkola (Oulu, Finland), Simo-Pekka Kihimäki, Simo Näähä, Niilo R.I. Ryti, Maritta S. Jaakkola</td>
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<th>PA5073</th>
<th>Benefits of improved air quality on the aging lungs</th>
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<td></td>
<td>Tamara Schikowski (Dusseldorf, Germany), Anke Hüls, Dorothee Sugiri, Michael J Abramson, Barbara Hoffmann, Ursula Krämer</td>
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<th>PA5074</th>
<th>Influence of air pollution residues on the respiratory health of urban transport drivers in a city of São Paulo State - Brazil</th>
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<td></td>
<td>Renata C Rossi (Presidente Prudente (SP), Brazil), Danillo Nascimento Vicente, Camila Sousa Vilela, Isabelo Santos Souza, Nathalye Fernanda Pedroso Dircksen, Marcus Vinicius Pimenta Rodrigues</td>
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<th>PA5075</th>
<th>Asthma and selective migration away from farming environments in a three-generation cohort study</th>
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<td>Signe Timm (Århus C, Denmark), Morten Frydenberg, Michael Abrahamson, Randi Bertelsen, Lennart Bräbäck, Bryndis Benedikstdottir, Shyamali Dharmage, Bertil Forsberg, Thorarinn Gislasson, Mathias Holm, Chiister Janson, Rain Jogi, Andrei Malinovschi, José Ramos, Torben Sigsgaard, Cecile Vranes, Vivi Schlunssen</td>
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<th>PA5076</th>
<th>Influence of air pollution on the number of hospital admissions in a Pneumology service</th>
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<td></td>
<td>Ana Cerezo Hernández (Valladolid, Spain), Tomás Ruiz Albi, Andrea Crespo Sedano, Daniel Álvarez González, Raúl López Izquierdo, Ana Gómez García, Noanaca Alonso Fernández, Carmen Lopez Represa, Félix Del Campo Matias</td>
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<tr>
<th>PA5077</th>
<th>Epidemiology of silicosis reported to the SWORD scheme in the UK.</th>
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<td>Christopher Barber (Sheffield (South Yorkshire), United Kingdom), David Fishwick, Martin Seed, Melanie Carder, Martie Van Tongeren</td>
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<tr>
<th>PA5078</th>
<th>Indoor airborne microbiota composition associated with asthma and atopy in rural children</th>
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<tr>
<td></td>
<td>Alejandro Dorado Garcia (Utrecht, Netherlands), Lidwien A.M. Smit, Alex Bosser, Inge M. Wouters, Heike Schmitt, Markus J. Ege, Martin Depner, Susanne Mゥller-Rompa, Elisabeth Schmausser-Hechelfinner, Michael J. Cox, William Cookson, Miriam Moffatt, Erika Von Mutius, Dick J. Heederik</td>
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<th>PA5079</th>
<th>Active smoking and a past myocardial infarction status induce more vulnerability to urban heat stress in COPD</th>
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<td></td>
<td>Christian Witt (Berlin, Germany), Christina Hoffmann, Marc Hanisch, Jana B. Heinsohn, Vanessa Dostal, Melissa Jehn, Uta Liebers, Wulf Pankow, Gavin Ch Donaldson</td>
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<tr>
<th>PA5080</th>
<th>Work-related effects on lung function, small airways and inflammation in hairdressers with airway symptoms – a pilot study</th>
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<td>Mona Lärstad (Goteborg, Sweden), Anna-Carin Olin</td>
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<tr>
<th>PA5081</th>
<th>Parental concern about indoor air quality and symptom reporting in primary schools</th>
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<td>Juusi Lampi (Kuopio, Finland), Juho-Jooel Nissilä, Sari Ung-Lanki, Kateryna Savelieva, Juha Pekkanen</td>
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<td>17:15-19:15</td>
<td>INDUSTRY EVENING SYMPOSIUM</td>
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<td>17:30-19:00</td>
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<td>17:30-19:00</td>
<td>INDUSTRY EVENING EXPERT FORUM</td>
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**Symposium: State of the art session: Paediatric respiratory diseases**

**Aims:** This session will provide clinicians with practical take-home messages regarding the key management and health policy issues that relate to the respiratory health of children and young people.

**Disease(s):** Paediatric respiratory diseases

**Method(s):** Epidemiology  General respiratory patient care  Public health  Pulmonary function testing

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Critical/Intensive care physician, General practitioner, Lung function technologist, Nurse, Paediatrician, Patient, Physiologist, Physiotherapist, Policy maker, Scientist (basic, translational), Student, Trainee

**Chairs:** Bülent Taner Karadag (Istanbul, Turkey), Ricardo Miguel Ribeiro Marques Cunha Fernandes (Lisboa, Portugal)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>08:30</td>
<td><strong>Bacterial pneumonia in children: a global perspective</strong></td>
<td>Rebecca Nantanda (Kampala, Uganda)</td>
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<td>09:00</td>
<td><strong>E cigarettes and children: should we be concerned?</strong></td>
<td>Alexander Larcombe (Perth (WA), Australia)</td>
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<td>09:30</td>
<td><strong>Primary ciliary dyskinesia</strong></td>
<td>Jane Lucas (Southampton (Hampshire), United Kingdom)</td>
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<td>10:00</td>
<td><strong>Systemic diseases and the lungs of children</strong></td>
<td>Sharon Dell (Toronto (ON), Canada)</td>
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**Hot topics: New trends in the management of pulmonary hypertension**

**Aims:** To update attendees on major advances in the management of patients with pulmonary hypertension

**Disease(s):** Pulmonary vascular diseases

**Method(s):** General respiratory patient care  Imaging

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Radiologist, Adult pulmonologist/Clinician

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Luke Howard (London, United Kingdom)

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<tr>
<td>08:30</td>
<td><strong>Risk stratification in pulmonary arterial hypertension (PAH)</strong></td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
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<td>5136</td>
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<td>09:00</td>
<td><strong>New therapeutic targets in pulmonary arterial hypertension (PAH): moving from preclinical data to phase 2 studies</strong></td>
<td>Martin Wilkins (London, United Kingdom)</td>
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<td>09:30</td>
<td><strong>Balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension (CTEPH): does it perform as well as we hoped?</strong></td>
<td>Xavier Jais (Le Kremlin-Bicêtre, France)</td>
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<td>10:00</td>
<td><strong>Rehabilitation: presentation of the ERS task force paper</strong></td>
<td>Ekkehard Grünig (Heidelberg, Germany)</td>
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**Symposium: Respiratory medicine meets rheumatology**

**Aims:** To explore the pathophysiology, symptoms, diagnosis and treatment of interstitial lung diseases that associate with connective tissue diseases (CTD) and interstitial pneumonia with autoimmune features (IPAF). This session is endorsed by the European League Against Rheumatism (EULAR).

**Disease(s):** Interstitial lung diseases  Pulmonary vascular diseases

**Method(s):** Cell and molecular biology  Imaging  Pulmonary function testing  Transplantation

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Physiologist, Physiotherapist, Radiologist, Student, Trainee, Adult pulmonologist/Clinician

**Chairs:** Michael Tamm (Basel, Switzerland), Clive Kelly (Gateshead, United Kingdom)
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<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>08:30</td>
<td>7.3C</td>
<td>Is it a connective tissue disease? Antibody patterns that the pulmonologist should be aware</td>
<td>Diego Kyburz (Basel, Switzerland)</td>
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<td>09:00</td>
<td>7.3C</td>
<td>Undifferentiated systemic rheumatic diseases and overlap syndromes: when can we diagnose</td>
<td>Katerina Antoniou (Heraklion, Greece)</td>
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<td>interstitial pneumonia with autoimmune features (IPAF)?</td>
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<td>09:30</td>
<td>7.3C</td>
<td>The chicken or the egg: drug-induced pulmonary disease in rheumatology</td>
<td>Clive Kelly (Gateshead, United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>7.3C</td>
<td>Treating systemic sclerosis with lung involvement: from observation to stem cell</td>
<td>Alan Tyndall (Florence, Italy)</td>
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<td>transplantation</td>
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**Session 524 08:30 - 10:30**

**Hot topics: New drugs, strategies and research designs for advanced non-small cell lung cancer**

**Aims:** This joint hot topic session with the EORTC offers a comprehensive overview of the latest developments in the treatment of advanced lung cancer. Current treatment strategies will be described. This will help attendees to integrate the newest clinical trial knowledge into routine lung cancer care. A perspective on new lung cancer study designs will also be provided.

**Disease(s):** Thoracic oncology  
**Method(s):** Cell and molecular biology  
**Tag(s):** Translational  
**Target audience:** Clinical researcher, General practitioner, Nurse, Pathologist, Patient, Radiologist, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician  
**Chairs:** Otto Chris Burghuber (Vienna, Austria), Georgia Hardavella (London, United Kingdom)

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<tr>
<td>08:30</td>
<td>524</td>
<td>Modern profiling of advanced lung cancer at the primary diagnosis and during therapy</td>
<td>Susann Stephan-Falkenau (Berlin, Germany)</td>
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<tr>
<td>09:00</td>
<td>524</td>
<td>Immunotherapy: when, who and which drug?</td>
<td>Jacques Cadranel (Paris Cedex 20, France)</td>
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<tr>
<td>09:30</td>
<td>524</td>
<td>Targeting targeted therapies: more choices and the best sequences</td>
<td>Jair Bar (Tel-Aviv, Israel)</td>
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<td>10:00</td>
<td>524</td>
<td>The future of translational lung cancer research: from classical randomised controlled</td>
<td>Jessica Menis (Padova, Italy)</td>
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**Session 525 08:30 - 10:30**

**Hot topics: The complexities of managing mild asthma**

**Aims:** (i) To learn about the prevalence and risks of mild asthma; (ii) to understand the attitudes of asthma patients to asthma medications; (iii) to learn from other disciplines about how to communicate effectively with patients about health risks; and (iv) to explore new evidence regarding novel treatment options for mild asthma and potential future directions.

**Disease(s):** Airway diseases  
**Method(s):** Epidemiology  
**Tag(s):** Clinical  
**Target audience:** Allergist, Clinical researcher, General practitioner, Nurse, Patient, Policy maker, Trainee, Adult pulmonologist/Clinician  
**Chairs:** Eric D. Bateman (Cape Town, South Africa), Antoine Magnan (Nantes, France)

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<tr>
<td>08:30</td>
<td>525</td>
<td>What is ‘mild asthma’, and how common is it?</td>
<td>Mark Fitzgerald (Vancouver (BC), Canada)</td>
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<td>09:00</td>
<td>525</td>
<td>“My reliever helps me control my asthma”: patient attitudes to asthma inhalers</td>
<td>Helen Reddel (Sydney (NSW), Australia)</td>
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<td>09:30</td>
<td>525</td>
<td>Risk communication in mild asthma: learning from other disciplines</td>
<td>Michelle N Eakin (Baltimore, United States of</td>
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<td>10:00</td>
<td>525</td>
<td>Filling the gaps: future treatment options for mild asthma</td>
<td>Paul O’Byrne (Hamilton (ON), Canada)</td>
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Session 526 08:30 - 10:30

Oral presentation: Does asthma phenotyping improve treatment?

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology  Public health  General respiratory patient care  Epidemiology

**Chairs:** Stephen James Fowler (Preston (Lancashire), United Kingdom), William Busse (Madison, United States of America)

**OA5152**

**Late Breaking Abstract - Oral corticosteroids exposure in a Swedish nationwide asthma population during 2006-2016**

Bright Nwaru (Gothenburg, Sweden), Bright Nwaru, Magnus Ekström, Fredrik Wiklund, Gunilla Telg, Helene Nordahl, Christer Janson

**OA5153**

**Discriminating phenotypes of severe eosinophilic asthma using gene profiling in sputum**

Laurits Frassing (Copenhagen V, Denmark), Anna Von Bülow, Marcus Ross Christensen, Vibeke Backer, Peter Gibson, Katherine Baines, Celeste Forsbjerg

**OA5154**

**Pulmonary function and levels of serum leptin and interleukin-6 in women with bronchial asthma**

Evgeniya Makarova (Chelyabinsk, Russian Federation), Galina Ignatova

**OA5155**

**Effects of a standardized Emergency Department asthma care pathway on health services utilization**

Chanel Kwok (Kingston (ON), Canada), Katherine Lajkosz, Carole Madeley, Mona Jabbour, Teresa To, M. Diane Lougheed

**OA5156**

**Sex differences in difficult asthma; findings in the WATCH cohort**

Anna Freeman (Southampton, United Kingdom), Heena Mistry, Adnan Azim, Matt A E Harvey, Judit Varkonyi-Sepp, Clair Barber, Hans Michael Haitehi, Colin Newell, Tom M Wilkinson, Ramesh J Kurukulaarachy

**OA5157**

**Phenotypic characteristics of asthmatic patients with small airways obstruction**

Amani Ben Mansour (Tunis, Tunisia), Salsabil Daboussi, Samira Mhamdi, Zied Moetemri, Chiraz Aichaouia, Islam Mejri, Moshe Khadraroui, Rzeig Cheikh

**OA5158**

**Influence of natural lung surfactant inhalations on clinical symptoms and pulmonary function parameters in patients with bronchial asthma**

Oleg Rosenberg (St. Petersburg, Russian Federation), Konstantin Shapovalov, Sergey Lukyanov, Olga Stepanova, Elena Akulova, Aleksandra Kochnueva, Andrey Seilev, Aleksey Shulga, Lidiya Loshakova, Vladimir Volekhov, Olga Lovacheva

Session 527 08:30 - 10:30

Oral presentation: New determinants of cardiovascular morbidity in COPD

**Disease(s):** Airway diseases

**Method(s):** Physiology  General respiratory patient care  Epidemiology  Public health  Imaging

**Chairs:** Frits M.E. Franssen (Horn, Netherlands)

**OA5159**

**Late Breaking Abstract - Right heart structural changes, exercise capacity and stress induced right ventricle dysfunction in non-severe COPD patients without pulmonary hypertension at rest.**

Radostina Cherneva (Sofia, Bulgaria), Zheina Cherneva, Dinko Valev, Rosen Petkov, Dimitar Kostadinov

**OA5160**

**Comorbidities in chronic obstructive pulmonary disease: a nation-wide twin study**

Howraman Meteran (København, Denmark), Simon Francis Thomsen, Martin R Miller, Torben Sigsgaard, Vibeke Backer

**OA5161**

**Association between centrilobular emphysema and coronary artery calcification: mediation analysis in the SPIROMICS cohort**

Surya Bhatt (Birmingham, United States of America), Hrudaya Nath, Young-Il Kim, Rekha Ramachandran, Jubal Watts, Nina Terry, Sushil Sonavane, Swati Deshmante, Prescott Woodruff, Elizabeth Oelsner, Sandeep Bodduhuri, Meilan Han, Wassim Labaki, James Wells, Fernando Martinez, Graham Barr, Mark Dransfield

**OA5162**

**In people at high risk of cardiovascular disease, co-existing COPD is not independently associated with macrovascular or microvascular disease**

Sachelle V. Ruickbie (London, United Kingdom), D R Burage, M P K Bajaj, C A Spilling, J W Dodd, A Prasad, T R Barrick, P W Jones, E H Baker

**OA5163**

**Influence of body mass on predicted values of static hyperinflation in COPD**

Peter Alter (Marburg, Germany), Klaus F Rabe, Holger Schulz, Claus F Vogelmeier, Rudolf A Jörres

**OA5164**

**Association between ICS therapy for COPD and diabetes onset and progression**

Jacq Voorham (Singapore, Singapore), Nicolas Roche, Jeffrey Stephens, Hye Yun Park, Robert Fogel, Andreas Clemens, Guy Brusselle, David Price

**OA5165**

**Low FFMI according to ESPEN cut-offs is a strong independent predictor of mortality in patients with COPD**

Irena Sarc (Ljubljana, Slovenia), Tatjana Kosten, Tomaz Hafner, Barbara Zupanc, Kristina Zihler
**7.3K**

**Session 528 08:30 - 10:30**

**Symposium: Antimicrobial host defence and innate immunity in the lung**

**Aims:** to present the latest developments in the research on innate immunity and antimicrobial peptides, which are crucial players in the host defence against respiratory infections and chronic inflammatory lung diseases. Antimicrobial peptides are increasingly referred to as host defence peptides because they have direct antimicrobial activity, can modulate immune responses and function in wound repair. These peptides have been implicated in a variety of lung diseases, including asthma, chronic obstructive pulmonary disease (COPD) and cystic fibrosis.

**Disease(s):** Airway diseases, Respiratory infections  

**Method(s):** Cell and molecular biology  

**Tag(s):** Translational  

**Target audience:** Clinical researcher, Pathologist, Scientist (basic, translational), Student, Adult pulmonologist/Clinician  

**Chairs:** Graham H. Bothamley (London, United Kingdom), Neeloffer Mookherjee (Winnipeg (MB), Canada)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>08:30</td>
<td><strong>Cationic host defence peptides as a novel treatment for respiratory viral infections</strong></td>
<td>Donald J. Davidson (Edinburgh (Edinburgh), United Kingdom)</td>
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<td>09:00</td>
<td><strong>Dysregulation of the expression and activity of antimicrobial peptides in COPD and cystic fibrosis</strong></td>
<td>Gimano Amatagallim (Utrecht, Netherlands)</td>
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<tr>
<td>09:30</td>
<td><strong>Antimicrobial peptides, vitamin D and tuberculosis</strong></td>
<td>Rubhana Raqib (Dhaka, Bangladesh)</td>
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<tr>
<td>10:00</td>
<td><strong>Role of interleukin-22 in the respiratory host defence against infections</strong></td>
<td>Mustapha Si-Tahar (Tours, France)</td>
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</tbody>
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**7.3Q**

**Session 529 08:30 - 10:30**

**Oral presentation: Novel and established imaging studies and findings**

**Disease(s):** Thoracic oncology, Airway diseases, Respiratory critical care, Sleep and breathing disorders, Respiratory infections  

**Method(s):** Endoscopy and interventional pulmonology, Respiratory intensive care, Physiology, General respiratory patient care, Imaging, Epidemiology, Public health  

**Chairs:** David Laszlo Tarnoki (Budapest, Hungary), Reinhard Kubale (Pirmasens, Germany)

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<th>Time</th>
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<tbody>
<tr>
<td>08:30</td>
<td><strong>Late Breaking Abstract - Use of AI in accurate diagnosis of TB using Medical Imaging: a promising result from UAE</strong></td>
<td>Bassam Mahboub (Dubai, United Arab Emirates), Hassan Hm Shurie, Fudunaya Yalaxow Addow, Ehtoie Ibrahim Ibrahim, Mohaned AI Redha AI Redha, Mahmood Hachim, Rifat Hamoudi, Anjum Ahmed Ahmed</td>
<td>Dubai (United Arab Emirates)</td>
<td>5171</td>
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<tr>
<td>08:30</td>
<td><strong>Comparison of abilities of virtual bronchoscopic navigation (VBN) software products to reproduce peripheral branches in diagnosing peripheral lung lesions</strong></td>
<td>Atsushi Kitamura (Tokyo, Japan), Kohei Okafuji, Ryusuke Imai, Hiroaki Kenamune, Kenji Ishii, Ryusuke Tsugitomi, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura</td>
<td>Tokyo, Japan</td>
<td>5172</td>
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<td>08:30</td>
<td><strong>A novel imaging technique for bronchopulmonary dysplasia: functional respiratory imaging</strong></td>
<td>Kristen Vanhaverbeke (Wilrijk, Belgium), Monique Slaats, Mohammed AI-Nejar, Niek Everaars, Annelies Van Eyck, Benedicte De Winter, Kim Van Hoorenbreeck, Jozef De Dooy, Ludo Mahieu, Jan De Backer, Wim Vos, Benjamin Mignot, Maarten Lanclus, Antonius Mulder, Stijn Verhulst</td>
<td>Wilrijk, Belgium</td>
<td>5173</td>
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<tr>
<td>08:30</td>
<td><strong>Menstrual cycle-associated PFT changes correlate with QCT of the lung</strong></td>
<td>Jessica C. Sieren (Iowa City, United States of America), Junfeng Guo, Archana Larioa, Eric A. Hoffman</td>
<td>Iowa City, United States of America</td>
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<tr>
<td>08:30</td>
<td><strong>Bronchial and nonbronchial systemic artery embolization: Experience with 836 patients</strong></td>
<td>Gamal Rabie Agmy (Assiut, Egypt), Yaser Gad, Sherif Mohamed, Hisham Imam, Moustafa Elshakawy</td>
<td>Assiut, Egypt</td>
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<tr>
<td>08:30</td>
<td><strong>Comparison of inhaled 19F C3F8 and hyperpolarized 129Xe lung ventilation MRI</strong></td>
<td>Adam Mauder (Sheffield (South Yorkshire), United Kingdom), Paul J.C. Hughes, Graham Norquay, Fraser Robb, Madhiewsha Rao, Jim Wild</td>
<td>Sheffield (South Yorkshire), United Kingdom</td>
<td>5177</td>
</tr>
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</table>
A comparison of paraseptal to centrilobular emphysema using computed and micro-computed tomography
Naoya Tanabe (Kyoto, Japan), Dragoş Vasilescu, Cameron Hague, Miranda Kirby, Harvey Coxson, Stijn Verleden, Bart Vanaudenaerde, James Hogg

7.3M Session 530 08:30 - 10:30
Oral presentation: Effect of environmental exposure on lung function outcomes

**Disease(s):** Airway diseases

**Method(s):** Epidemiology, Physiology, Public health

**Chairs:** Torben Sigsgaard (Århus, Denmark), Isabella Annesi Maesano (Paris, France)

**Late Breaking Abstract - Accelerated lung function decline in former and light smokers: NHLBI Pooled Cohorts Study**

**Poor prognosis in young and middle-aged adults with airflow limitation according to lower limit of normal but not fixed ratio: a population-based prospective cohort study**
Yunus Çolak (Herlev, Denmark), Shoai̇b Afzal, Borge G. Nordestgaard, Jørgen Vestbo, Peter Lange

**Body mass index trajectories during adult life and lung function decline**
Gabriela P. Peralta (Barcelona, Spain), Elaine Fuertes, Anne-Elie Carin, Nicole Probst-Hensch, Alessandro Marcon, Dennis Nowak, André F.S. Amaral, Ane Johannessen, Christen Janson, Shyamali Dharmage, Thorarinn Gislason, Vanessa Garcia-Larsen, Michael J. Abramson, Torben Sigsgaard, Josep M. Antó, Joost Weyler, Roberto Bonato, Mathias Holm, Peter Burney, Joachim Heinrich, Bertil Forsberg, Chantal Raherin-Semjen, Valerie Siroux, Benedicte Leynaert, Simone Accordini, Jesus Martinez-Moratalla, Jose-Luis Sanchez-Ramos, Deborah L. Jarvis, Judith Garcia-Aymerich

**Long-term air pollution exposure is associated with sick leave 20 years later**
Ane Johannessen (Bergen, Norway), Ingrid Nordeide Kuiper, Simone Accordini, Randi Jacobsen Bertelsen, Bertil Forsberg, Thorarinn Gislason, Joachim Heinrich, Mathias Holm, Rain Jögi, Jørunn Kyrkelev, Andrei Malinovschi, Alessandro Marcon, Iana Markevych, Anna Oudin, Vivi Schlüssen, Torben Sigsgaard, Cecile Svanes, Kjell Torén, Christer Janson

**Oral microbiome and lung health**
Øistein Svanes (Kleppestø, Norway), Ane Johannessen, Shymal Peddada, Francisco Gomez Real, Cecile Svanes, Randi J. Bertelsen

**Early life exposome and lung function in children from the HELIX cohort**
Valérie Siroux (La Tronche, France), Lydiane Agier, Xavier Basagaña, Jose Urquiza, Jordi Sunyer, Maribel Casas, Olivier Robinson, Berit Granum, Bente Ofedal, Cathrine Thomesen, Montserrat De Castro, Mark Nieuwenhuijsen, John Wright, Rosemary Mceachen, Philippa Bird, Noortje Uphoff, Regina Grazuleviciene, Sandra Andrusaityte, Inga Petrviciene, Theano Roumeliotaki, Vasiliki Leventakou, Leda Chatzi, Martine Vrijheid, Remy Slama

**Lung health in adulthood after childhood exposure to air pollution and greenness**
Ingrid Nordeide Kuiper (Bergen, Norway), Cecile Svanes, Michael J. Abramson, Bryndís Benediktsdottir, Randi J. Bertelsen, Martine Dennekamp, Bertil Forsberg, Thorarinn Gislason, Thomas Halvorsen, Joachim Heinrich, Mathias Holm, Christer Janson, Rain Jögi, Andrei Malinovschi, Alessandro Marcon, Iana Markevych, Jesús M. Moratalla, Anna Oudin, John L. Pearce, Vivi Schlüssen, Antonio P. Vega, Ane Johannessen

**Chronic exposure to black carbon particles and traffic-related particulate matter (PM) specifically from traffic are associated with reduced lung-function in a general population**
Anna-Carin Olin (Göteborg, Sweden), Hanne Kragh Carlsen, Fredrik Nyberg, David Segersson

7.3O Session 531 08:30 - 10:30
Oral presentation: Physiotherapy care for patients with acute and chronic respiratory conditions

**Disease(s):** Airway diseases, Thoracic oncology

**Method(s):** Surgery, General respiratory patient care

**Chairs:** Chris Burtin (Diepenbeek, Belgium), Deniz Inal-Ince (Ankara, Turkey)

**Impact of frailty during hospitalized exacerbations of COPD on 90-day readmissions - preliminary data.**
Christian Osadnik (Melbourne, Australia), Alethea Kavanagh, Martin Macdonald, Anne Tran, Philip Bardin, Terrence Haines

**Home-based rehabilitation in inoperable lung cancer: a randomised controlled trial**
Lara Edbrooke (Melbourne (VIC), Australia), Sanchia Aranda, Catherine Granger, Christine Mc Donald, Mei Krishnasamy, Linda Mileskine, Ross Clark, Ian Gordon, Louis Irving, Linda Denehy
Physical activity level during the first three days after lung cancer surgery improves with physiotherapy: a randomized controlled trial
Marcus Jonsson (Degerfors, Sweden), Anita Hurtig-Wennlof, Anders Ahlsson, Marten Vidlund, Yang Cao, Elisabeth Westerdahl

Physical activity telecoaching during pulmonary rehabilitation in patients with COPD: do we reach the intended candidates?
Matthias Loeckx (Leuven, Belgium), Fernanda Machado Rodrigues, Heleen Demeyer, Thomas Reijnders, Andreas Von Leupoldt, Wim Janssens, Thierry Troosters

Mechanical comparison of 6 oscillatory positive expiratory pressure devices.
William Poncin (Brussels, Belgium), Giuseppe Liistro, Grégory Reychler

The effects of inspiratory muscle training on exercise capacity, dyspnea and lung functions in lung transplantation candidates
Seda Saka (Istanbul, Turkey), Esra Pehlivan , Fatma Mutluay, Arif Balci, Lutfiye Kiliç, Esra Yazar

Moderate-to-high intensity inspiratory muscle training improves the effects of combined training on exercise capacity in patients after coronary artery bypass graft surgery: a randomized clinical trial
Isabella Albuquerque (Santa Maria (RS), Brazil), Tamires Dos Santos, Sérgio Pereira, Luiz Osório Portela, Dannuay Cardoso, Pedro Dal Lago, Naiara Guarda, Rafael Moresco, Marisa Pereira

Oral presentation: Latest advances in pulmonary rehabilitation assessment and content

Disease(s): Airway diseases, Respiratory infections
Method(s): General respiratory patient care

Late Breaking Abstract - A cluster-randomized trial of a nurse-led advance care planning session in patients with COPD and their loved ones
Carmen Houben (Horn, Netherlands), Carmen Houben (Horn, Netherlands), Martijn Spruit, Hans Luyten, Herman-Jan Pennings, Vivian Van Den Boogaart, Jacques Creemers, Geertjan Wesseling, Emiel Wouters, Daisy Janssen

Randomised controlled trial of pulmonary rehabilitation including cognitive behavioural therapy for breathlessness.
Marie Williams (Adelaide (SA), Australia), Catherine Paquet, Paul Cafarella, Peter Frith

High flow nasal cannula improves exercise capacity in COPD patients: crossover trial
Maria Florencia Castellano Barneche (Buenos Aires, Argentina), Silvina Dell’Erba, Nicolás Roux, Elena Gimeno Santos, Sergio Terrasa, Ilona Bykhovsky, Guadalupe Gracia, Maria Carolina Balestrieri, Alejandro Midley

Change in V\(\text{O}_2\)peak in response to aerobic training in patients with COPD: A meta-analysis.
Tom Ward (Market Harborough (Leicestershire), United Kingdom), Tom Ward (North Shields (Tyne and Wear), United Kingdom), Amy Jones, Ruth Trethewey, Pip Divall, Sally Singh, Tom Dolmage, Martin Lindley, Michael Steiner, Rachael Evans

Comparison of exercise responses in COPD patients with and without Alpha-1 antitrypsin deficiency
Inga Jarosch (Schönau am Königssee, Germany), Wolfgang Hitzl, Andreas Rembert Koczulla, Marion Wencker, Tobias Welte, Rainer Gloeckl, Sabina Janciauskiene, Klaus Kenn

Minimal clinically important difference in 30 second sit-to-stand test after pulmonary rehabilitation in patients with COPD
Ernesto Crisafulli (Modena (MO), Italy), Andrea Zanini, Michele D’Andria, Cristina Gregorini, Francesca Cherubino, Elisabetta Zampogna, Andrea Azzola, Antonio Spanevello, Alfredo Chetta

Responsiveness of a short stair climb power test to pulmonary rehabilitation in COPD
Sarah Jones (Berkshire, United Kingdom), Matthew Maddocks, Claire Nolan, Suhani Patel, Ruth Barker, Samantha Kon, Nicholas Hopkinson, William Man

Variability in access and referral to pulmonary rehabilitation in European bronchiectasis patients enrolled in the EMBARC registry
Paul Walker (Wirral (Merseyside), United Kingdom), B Herrero, A Spinou, K Dimakou, F Blasi, F Ringshausen, A De Soyza, M Vendrell, P C Goeminne, W Boersma, C Haworth, M Murris, A T Hill, M R Loebinger, R Menendez, A Torres, T Welte, R Wilson, J S Elborn, S Aliberti, J D Chalmers, E Polverino

Poster discussion: Sarcoidosis: from basic research to patient outcomes
**Disease(s):** Thoracic oncology, Respiratory infections, Interstitial lung diseases, Airway diseases, Respiratory infections

**Method(s):** Public health, Surgery, Endoscopy and interventional pulmonology, Cell and molecular biology, General respiratory patient care, Imaging, Epidemiology

**Chairs:** Paolo Spagnolo (Padova (PD), Italy), Jan C. Grutters (Nieuwegein, Netherlands)

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**PA5202** Microbiological study of mediastinal lymph node biopsy from patients with sarcoidosis and lung cancer
Saher Burhan Shaker (Rødovre, Denmark), Amir Durakovic, Kurt Fuursted, Klaus Richter Larsen, Matullah Naqbullah

**PA5203** ETS-1 mRNA and its association with T-BET and Th1 cytokine expression in active pulmonary sarcoidosis.
Puja Sohal (New Delhi (Delhi), India), Hina Aggarwal, Karan Madan, Vijay Hadda, Kalpana Luthra, Anant Mohan, Dipendra Kumar Mitra, Randeep Guleria

**PA5204** Flow cytometric analysis of lymphocyte profiles in mediastinal lymph nodes
Ken akao (Toyoake, Japan), Tatsuya Okamura, Tomoyuki Minezawa, Kumiko Yamatsuka, Yasuhiro Goto, Sumito Isogai, Masashi Kondo, Kazuyoshi Imaiizumi

**PA5205** Mononuclear phagocytes in lungs, lymph nodes and blood of sarcoidosis patients
Rico Lezpien (Stockholm, Sweden), Gregory Rankin, Jamshid Pourazar, Ala Mualu, Anders Eklund, Johan Grunewald, Anders Blomberg, Anna Småd Sörensen

**PA5206** Placebo-controlled randomised trial of dexamethasone for quality of life in pulmonary sarcoidosis
Roeland Vis (Utrecht, Netherlands), E.M.W. Van De Garde, I.H.E. Korenromp, J.C. Grutters

**PA5207** Combination of endoscopic techniques - number of lymph nodes stations biopsies and application of cell blocks in the sarcoidosis diagnosis.
Lukasz Kasper (Kraków, Poland), Anna Andrychiewicz, Marta Kasper, Romana Tomaszewska, Jerzy Soja, Krzysztof Sladec

**PA5208** The pulmonary microbiome in sarcoidosis is similar to other parenchymal lung diseases
Andre Becker (Homburg, Germany), Giovanna Vella, Christian Herr, Andreas Keller, Cedric Lacznz, Christoph Beisswenger, Robert Bals

**PA5209** Advanced pulmonary sarcoidosis: long-term follow-up of 10 years or more.
Olga P. Baranova (St. Petersburg, Russian Federation), Mikhail Ilkovich, Alexandra Speranskaya, Vitalii Perle

**PA5210** Mixed ventilatory defects in pulmonary sarcoidosis: prevalence and prognosis
Vasileios Kouranos (London, United Kingdom), Simon Ward, Maria Kokosi, Suzie Thomas, Diego Castillo, Eoin Judge, Frans Van Tonder, Armand Devaraj, Toby Maher, Elisabetta Renzoni, Athol Wells

**PA5211** The clinical value of vascular endothelial growth factor (VEGF) in the development of lung sarcoidosis.
Liubov Ponomareva (Moscow, Russian Federation), Elena Popova, Andrey Ponomarev

**PA5212** Autoreactivity in patients with respiratory sarcoidosis.
Ulia Zinchenko (St Petersburg, Russian Federation), Anna Starshinova, Nina Denisova, Sergey Lapin, Alexandra Mazing, Elena Surkova, Piotr Yablonskii

**PA5213** Optical coherence tomography in the diagnosis of sarcoidosis of lung and other organs
Elena Sabadash (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Sergey Skornjakov, Igor Medvinskiy, Evgeniy Egorov, Elena Filatova, Maria Peretrukhina, Maria Chernenko, Elena Ivanchikova, Ilia Diachkov

**PA5214** The clinical value of vascular endothelial growth factor (VEGF) in the development of lung sarcoidosis.
Liubov Ponomareva (Moscow, Russian Federation), Elena Popova, Andrey Ponomarev

**PA5215** Differential Expression of Plasma Metabolites in Patients with Pulmonary Sarcoidosis is Associated with Clinical Behavior
Daniel Kass (Pittsburgh, United States of America), Stephen Strock, Mehdi Nouraie, Jared Chiarchiaro, Kristen Veraldi, Yingze Zhang, Kevin Gibson

**PA5216** Cardiac sarcoidosis: worse pulmonary function due to left ventricular ejection fraction ? A case-control study.
Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros, Elżbieta Wiatr, Jacek Zych, Anna Kempisty, Marek Kram, Dorota Piotrowska-Kownacka, Stefan Wesolowski, Robert Baughman, Kazimierz Roszkowski-Sliz

**PA5217** Ultrasonographic evaluation of lung parenchyma in sarcoidosis
Seda Beyhan Sagmen (İstanbul, Turkey), Coskun Dogan, Nesrin Kiral, Elif Torun Parnaksz, Banu Salepci, Ali Fidan, Benan Caglayan, Sevda Sener Comert

**PA5218** Differential expression of ubiquitin and PU.1 in granulomatous lesions of tuberculosis and sarcoidosis
JongWook Shin (Seoul, Republic of Korea), Byoung Whui Choi, In Won Park
Sarcoidosis treatment and outcomes: what is most important to patients?
Jeanette Boyd (Sheffield (South Yorkshire), United Kingdom), Robert P. Baughman, Dominique Valeure, Ana Rosa Alvez Rodriguez, Linda Charvoz, Hans-Peter Faber, Chris Knoet, Filippo Martone, Dorrit Irène Novel, Bernd Quadder, Jack Richardson, Ginger Spitzer, Gianluca Ziosi, Johanna Hochreiter

Terminal 7  Session 534  08:30 - 10:30
Oral presentation: Innovative tobacco cessation approaches and trends in tobacco and e-cigarette use

Disease(s): Airway diseases
Method(s): Epidemiology  Public health

Chairs: Sofia Belo Ravara (Covilhã, Portugal), Linnea Hedman (Luleå, Sweden)

OA5220 Late Breaking Abstract - E-cigarette use among Swedish teenagers
Linnea Hedman (Luleå, Sweden), Helena Backman, Caroline Stridsman, Martin Andersson, Anne Lindberg, Eva Rönmark

The use of electronic cigarette by e-smokers is associated with a poor perceived health status in the population-based Constances cohort
Emeline Lequy (Paris, France), Emmanuel Wiernik, Iris Hourani, Diane Cyr, Rachel Nadif, Cédric Lemogne, Marcel Goldberg, Marie Zins, Guillaume Airagnes

OA5222 Exposure of electronic cigarettes in Russia: results from Russian tobacco control policy evaluation study
Marine Gambaryan (Moscow, Russian Federation), Marina Popovich, Anna Kalinina, Michail Starvoytov, Sergey Boytsov, Oxana Drapkina

OA5223 Prevalence and correlates of cigarillo use in European Union member states
Filippos T. Filippidis (London, United Kingdom), Enkeleint-Aggelos Mechili, Charis Girvalaki, Constantine Vardavas

OA5224 Reduced smoking last ten years was driven by young women smoking less
Emma Goksör (Molnlycke, Sweden), Göran Wennergren, Styliana Vasileiadou, Roxana Mincheva, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

OA5225 WHO-ERS project on smoking cessation in primary care in countries with high prevalence of tobacco use. First year experience
Paraskevi Katsaounou (Athens, Greece), Christina Gratziou, Carlos Jimenez Ruiz, Marine Faure, Brian Ward, Sofia Ravara, Vinayak Mohan Prasad, Kristina Mauer-Stender, Jagdish Kaur, Angela Ciobanu, Syed Mahfuzul Huq, Dongbo Fu

OA5226 Financial incentives combined with a smoking cessation group training programme increase abstinence rates in employees: a cluster randomized trial
Onno C. P. van Schayck (Maastricht, Netherlands), Floor A. Van Den Brand, Gera E. Nagelhout, Bjorn Winkens, Niels H. Chavannes

OA5227 A 12 month smoking cessation outcome-Allen Carr’s Easyway to Stop Smoking-a randomised clinical trial
Sheila Keogan (Dublin 8, Ireland), Shasha Li, Luke Clancy

7.2A Session 535  08:30 - 10:30
Poster discussion: What is new in idiopathic interstitial pneumonias?

Disease(s): Interstitial lung diseases  Respiratory critical care  Airway diseases
Method(s): Respiratory intensive care  Endoscopy and interventional pulmonology  Epidemiology  Physiology  General respiratory patient care  Imaging

Chairs: Michael Kreuter (Heidelberg, Germany), Argyris Tzouvelekis (Athens, Greece)

PA5228 Late Breaking Abstract - Phase 1, first-in-human study of OATD-01, a dual chitinase inhibitor for the treatment of respiratory diseases
Stanislaw Pikul (Warszawa, Poland), Joanna Lipner, Michael Lissy, Barbara Dymek, Karolina Dzwonek, Pawel Dobrzanski, Magdalena Kania, Adam Golebiowski

PA5229 Usefulness of surgical lung biopsies after cryobiopsies when pathological results are unspecific or show a pattern suggestive of a nonspecific interstitial pneumonia
Benjamin Bondue (Bruxelles, Belgium), Thierry Pieters, Antoine Froidure, Vincent Heinen, Patrick Alexander, Delphine Hoton, Florence Dome, Myriam Remmelink, Dimitri Leduc

PA5230 Long-term nintedanib treatment in idiopathic pulmonary fibrosis (IPF): final data from INPULSIS-ON
Bruno Crestani (Paris, France), Manuel Quaresma, Mitchell Kaye, Takashi Ogura, Wibke Stanssen, Susanne Stowasser, Michael Kreuter
**PA5231** Proof of concept of a non-invasive screening tool to detect idiopathic pulmonary fibrosis (IPF) in an early stage
Jan De Backer (Kontich, Belgium), Cedric Van Holsbeke, Wim Vos, Dennis Belmans, Glenn Leemans, Wilfried De Backer

**PA5232** Feasibility of a home monitoring program including real-time wireless home spirometry in idiopathic pulmonary fibrosis
Catharina Moor (Rotterdam, Netherlands), Monique Wapenaar, Jelle R. Miedema, Jacomina J.M. Geelhoed, Prewesh P. Chandoesing, Marlies S. Wijsenbeek

**PA5233** The correlation between pathological findings of transbronchial lung cryobiopsy and high resolution CT morphology for diffuse parenchymal lung disease patients
Naoto Aiko (Kanagawa, Japan), Takashi Niwa, Takuma Katano, Goshi Matama, Kohsuke Isomoto, Erina Tabata, Ryo Shintani, Shinko Sadoyama, Hideaki Yamakawa, Satoshi Ikeda, Hiroaki Nakagawa, Tsuneyuki Oda, Ryo Okuda, Akimasa Sekine, Hideya Kitamura, Tomohisa Baba, Shigeru Komatsu, Eri Hagiwara, Takashi Ogura

**PA5234** Dehydroepiandrosterone sulfate plasma levels correlate with lung function, muscle mass and physical performance in fibrotic interstitial lung disease
Sabina Guler (Ried-Brig, Switzerland), Seo Am Hur, Scott Lear, Pat Camp, Pearce Wilcox, Janice Leung, Christopher Ryerson

**PA5235** Diagnostic value of BAL lymphocytosis in patients with suspected IPF and indeterminate HRCT pattern
Vasilios Tzilas (Athens, Greece), Argyris Tzouvelekis, Evangelo Bouros, Maria Ntasiou, Anna Kefalaki, Anna Tsonou, Demosthenes Bouros

**PA5236** Cognitive impairment and depression in patients with Idiopathic Pulmonary Fibrosis
Radwa Elhefny (Cairo, Egypt), Assem Elessawy, Hala Shaheen, Asmaa Mohamed

**PA5237** Fatigue in IPF measured by the Fatigue Assessment Scale during antifibrotic treatment
Elisabeth Bendstrup (Vejle, Denmark), Vibeke Skivild, Rikke Larsen, Anette Aalestrup, Inger Terp, Kristina Nordvig, Thomas Prior, Janne Molfr

**PA5238** Survival after respiratory hospitalization in patients with idiopathic chronic fibrosing interstitial pneumonia
Osamu Nishiyama (Osaka, Japan), Ryo Yamazaki, Sho Saeki, Hiroyuki Sano, Takashi Iwanaga, Yuji Higashimoto, Hiroaki Kume, Yuji Tohda

**PA5239** Effect of pamrevlumab on the UCSD-SOBQ (University of California San Diego–Shortness of Breath Questionnaire) in patients with Idiopathic Pulmonary Fibrosis (IPF)
Eduard Gorina (Belmont, United States of America), Tro Sekayan, Jeff Swigris, Peter Lacamera, Rafael Perez, Mark Hamblin, Joao Deandrade, John Fitzgerald, Peter Bercz, Ming Zhong, Elias Kouchakji, Peony Yu, Thomas Neff

**PA5240** Clinical impact of an interstitial lung disease Nurse on patients with idiopathic pulmonary fibrosis
Sharina Aldhaheri (Kingston, Canada), Onofre Moran-Mendoza, Lynda McCarthy

**PA5241** Safety in treating dyspnea with morphine in ILD patients
Sissel Kronborg-White (Lystrup, Denmark), Charlotte Uggerhøj Andersen, Ole Hilberg, Elisabeth Bendstrup

**PA5242** Visual and fully-automated CT analysis in acute exacerbations of idiopathic pulmonary fibrosis (IPF)
Lars Kehler (Heidelberg, Germany), Tobias Norajitra, Julia Ley-Zaporozhan, Athanasios Giannakis, Roman Rubtsov, Claudia Bauer-Kemeny, Klaus Maier-Hein, Claus-Peter Heussel, Michael Kreuter

**PA5243** Assessment of survival in patients with idiopathic pulmonary fibrosis (IPF) using quantitative HRCT indexes
Sebastiano Emanuele Torrisi (Acreale (CT), Italy), Stefano Palmucci, Roberta Rosso, Matteo Eschiano, Mauro Pavone, Ada Vancheri, Gianluca Sambataro, Claudia Crimi, Alessandro Stefano, Giorgio Russo, Carlo Vancheri

**PA5244** Frailty is an independent predictor of number and length of hospitalizations in patients with fibrotic ILD
Sabina Guler (Ried-Brig, Switzerland), Joanne Kwan, Pearce Wilcox, Christopher Ryerson

**PA5245** Risk Factors for Mortality in Patients with Idiopathic Pulmonary Fibrosis Followed at Intensive Care Unit due to Acute Respiratory Failure
Burcu Uysaler (izmir, Turkey), Pervin Korkmaz Ekren, Feza Bacakoglu, Nesrin Mogulkoc Bishop

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7.2B **Session 536** 08:30 - 10:30
Poster discussion: Preclinical pharmacology: novel targets in airway inflammation, narrowing and neural control

**Disease(s):** Airway diseases, Respiratory critical care, Interstitial lung diseases, Pulmonary vascular diseases

**Method(s):** Respiratory intensive care, Physiology, Cell and molecular biology

**Chairs:** Leif Bjermer (Lund, Sweden), Sara Jane Bonvini (London, United Kingdom)
Andrographolide inhibits the activation of NLRP3 inflammasome in patients with COPD

Wei Xiao (Chengdu, China), Wei Xiao, Juan-Juan Fu, Sheng-Jun Wang, Yan Wang, Ti-Wei Miao, Bing Mao

PUR1800 (RV1162), A novel narrow spectrum kinase inhibitor, but not Fluticasone, reduces TNFα-induced cytokine release by primary bronchial epithelial cells from healthy volunteers and COPD patients

Aidan Curran (Lexington, United States of America), Catherine Charron, Paul Russell, David Hava

The effects of fatty acid amidase hydrolase and monoacylglycerol lipase inhibitors in lipopolysaccharide-induced airway inflammation and tracheal hyperreactivity in mice

Turgut Emrah Bozkurt (Ankara, Turkey), Reshed Abohalaka, Sevgen Celik Onder, Inci Sahin-Erdemli

Effects of Nintedanib on the M1 and M2a polarization of human macrophages

Nessrine Bellamri (Rennes, France), Claudie Morzadec, Valérie Lecuryre, Audrey Joannes, Lutz Wollin, Stéphane Jouneau, Laurent VERNHET

Mechanisms leading to the bronchoprotective effects of N-Acetylcysteine in human bronchi stimulated by lipopolysaccharide

Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Francesco Facciolo, Barbara Rinaldi, Mario Cazzola, Maria Gabriella Matera

Differential anti-inflammatory effects of budesonide and a p38 MAPK inhibitor AZD7624 on COPD pulmonary cells

Andrew Higham (Manchester (Greater Manchester), United Kingdom), Pradeep Karur, Natalie Jackson, Danen Cunoosamy, Paul Janssion, Dave Singh

Clinically validated markers of the extracellular matrix remodelling are altered by potential anti-fibrotic compounds in a human lung fibrosis ex vivo model

Diana Julie Leeming (Herlev, Denmark), Jannie M.B Sand, Christina Hesse, Sebastian Konzoker, Katherine Sewald, Sarah Rønnow, Armin Braun, Morten A Karsdal, Sarah Brockbank, Simon Cruwys

Smooth-muscle-derived WNT-5A drives allergen-induced remodelling and Th2 type inflammation

Reinoud Gosens (Groningen, Netherlands), Tim Koopmans, Laura Hesse, Martijn Nuijten, Mark Menzen, Ron Smits, Elvira Bakker, Judith Vonk, Maarten Van Den Berge, Gerard Koppelman, Victor Guryev

Intrinsic tone in human airway smooth muscle increases subsequent contractile response

Alvenia Cairncross (Perth (WA), Australia), Farid Sanai, Brent Mcparland, Gregory King, Peter Mcfawn, John Elliot, Alan James, Peter Noble

LPS and TNFa differentially increase intrapulmonary airway and artery contraction in mouse precision cut lung slices

Emma Lamanna (Clayton, Australia), Claudia Nold, Jane Bourke

Free fatty acid receptors, FFAR1 and FFAR4, are novel bronchodilator targets in mouse and human precision-cut lung slices

Jane Bourke (Clayton (VIC), Australia), Ralph Angeles, Chantal Donovan, Maggie Lam, Jackie Micallef, Bharat Shimpukade, Trond Ulven, Simon Royce

Comparative activity of ilmetropium iodide and other anticholinergic drugs.

Tatiana Molostova (Moscow, Russian Federation), Alexander Chuchalin, Yuri Kalinin, Sofia Skachilova, Oksana Proskurina

The anti-tussive effects of an inhaled LABA are maintained after chronic treatment

Michael A. Wortley (London, United Kingdom), Sara J. Bonvini, Pauline L.M. Flajolet, Maria G. Belvisi, Mark A. Birrell

Allergen-induced BDNF expression and neuronal remodeling contributes to airway hyperresponsiveness

Loes E. M. Kistemaker (Groningen, Netherlands), Susan Nijboer, Anne P De Groot, Eva VohlïDalová, I Sophie T Bos, Y.S. Prakash, Reinoud Gosens

Characterisation of TRPA1 activation on sensory nerves

Xue Chen (London, United Kingdom), Sara J. Bonvini, Eric Dubuis, Mark A. Birrell, Maria G. Belvisi
Poster discussion: Tuberculosis transmission and screening strategies

**Disease(s):** Respiratory infections  
**Method(s):** Cell and molecular biology  Public health  Epidemiology  General respiratory patient care

**Chairs:** Delia Goletti (Roma (RM), Italy), Alberto Matteelli (Brescia (BS), Italy)

**PA5264**  
Associated factors to tuberculosis transmission.
Juan Rodríguez López (Oviedo (Asturias), Spain), Jose María García García, Teresa Rodrigo, Juan Ruiz-Manzano, Marti Casals, Joan Caylà, Programa I Investigacio Grupo De Tuberculosis-Separ

**PA5265**  
Introduction of a Latent TB infection (LTBI) screening programme detects cases of active tuberculosis and hepatitis B and C
Jennifer Yung (London, United Kingdom), Jennifer Yung, Grace Isbister, Thomas Mason, Stella Abiona, Martino Dall’Antonia, Moerida Belton

**PA5266**  
Epidemiological features of nosocomial tuberculosis in patients with pulmonary tuberculosis in TB hospital
Nelia Vasileva (St. Petersburg, Russian Federation), Anna Vyazovaya, Igor Vasilev, Natalia Solovieva, Vyacheslav Zhuravlev, Olga Narvskaya, Ludmila Zueva

**PA5267**  
Diagnostic delay in tuberculosis in Yorkshire & Humber, UK: 2013-16 data
Stefanie Gissing (Leeds (West Yorkshire), United Kingdom), Renu Bindra

**PA5268**  
Implementation of FAST strategy in the National Center for Tuberculosis and Lung Diseases (NCTLD) in Georgia
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Rusudan Aspindzelashvili, Nino Lomtadze

**PA5269**  
Tuberculosis contact investigation – 5-year experience of a Portuguese ambulatory center
Daniel Gonçalo Pereira Duarte (Lisboa, Portugal), Rodrigo Farinha, João Eusébio, Paula Raimundo, Natália André, António Domingos

**PA5270**  
Performance of QuantiFERON TB PLUS® (QTF-PLUS) In the detection of latent tuberculosis infection in relation to QTF TB GOLD IN TUBE (QTF), TSPOT.TB and Tuberculin Skin Test (TST). A two year prospective study.
Miguel Arias Guillen (Oviedo (Asturias), Spain), Maria Teresa Gonzalez-Budilho, Marta Maria García-Clemente, Sabino Riestra-Menéndez, Rubén Queiro, Juan José Palacios-Gutiérrez, Susana Martínez-González, Miguel Santibáñez, Tamara Hermida-Valverde, Carmen Osoro-Suédez, José Andrés Lorenzo, Ariel Moreda, Inés Ruiz-Alvarez, Julia Herrera-Puertas, Andrés Ortiz, María Folgueras-Gómez, Pere Casan-Clarà

**PA5271**  
Evaluation of IP-10 in IGRA for LTBI diagnosis
Linda Petrone (Roma (RM), Italy), Elisa Petruccioli, Valentina Vanini, Teresa Chiachio, Gilda Cuzzi, Fabrizio Palmieri, Giuseppe Ippolito, Delia Goletti

**PA5272**  
Modulation of whole-blood IGRA response in patients with latent TB infection during treatment
Elisa Petruccioli (Roma (RM), Italy), Teresa Chiachio, Valentina Vanini, Gilda Cuzzi, Fabrizio Palmieri, Luigi Ruffo Codecasa, Paola Castellotti, Giuseppe Ippolito, Delia Goletti

**PA5273**  
Discordance between tuberculin skin tests (TST) and interferon gamma release assays (IGRAs): Are we over-treating LTBI?
Rodric V Francis (Nottingham, United Kingdom), Amanda Goodwin, Vidya Navaratnam, Lois Dexter, Anna L Rich

**PA5274**  
Immune reactive profiling in subjects at risk of latent tuberculosis infection with TST(+) /IGRA(-) results.
Patricio Escalante (Rochester, United States of America), Tobias Peikert, Virginia P. Van Keulen, Courtney L. Erskine, Andrew H. Limper

**PA5275**  
Recombinant Tuberculosis Allergen in Detecting Latent Tuberculosis Infection in Adults
Tatiana Ivanovna Morozova (Saratov (Saratov Oblast), Russian Federation), Olga Otpuschennykova

**PA5276**  
Results of retrospective-prospective comparison study of different immunologic tests in diagnosis of tuberculosis infection
Anna Starshinova (St. Petersburg, Russian Federation), Vyacheslav Zhuravlev, Irina Dovgaluk, Alexander Panteleev, Ulia Zinchenko, Evgenia Istomina, Maria Pavlova, Piotr Yablonskiy

**PA5277**  
Accuracy of whole blood IGRA in TB subjects with rheumatic disease.
Teresa Chiachio (Roma (RM), Italy), Elisa Petruccioli, Valentina Vanini, Gilda Cuzzi, Fabrizio Palmieri, Giuseppe Ippolito, Delia Goletti

**PA5278**  
Comparison of LTBI screening strategies before TNF inhibitor treatment in inflammatory arthritis
Young Ju Jung (Seoul, Republic of Korea), Dae Hyun Jeong, Jieun Kang, Bin Yoo, Chang-Kён Lee, Yong-Gil Kim, Seokchan Hong, Tae Sun Shim, Kyung-Wook Jo
PA5279 Should we treat every patient with latent TB? Is there a cost to pay?
Usman Maqsood (Walsall, United Kingdom), Muhammad Ganaie, James Redfern, Mohammed Munavvar

PA5280 Conversion of tuberculosis screening tests during biological therapy in patients with rheumatic diseases: what’s beyond screening values?
Victoria Sadovici-Bobeica (Chisinau, Republic of Moldova), Virginia Salaru, Lucia Mazur-Nicorici, Maria Garabajiu, Tatiana Rotaru, Minodora Mazur

PA5281 Molecular Epidemiology of Tuberculosis (TB) Patients Attending to Ege University Faculty of Medicine
Imren Nesil (Izmir, Turkey), Mustafa Hikmet Ozhan, Cengiz Cavusoglu

7.2D Session 538 08:30 - 10:30
Poster discussion: The importance of the pulmonary function test in different clinical settings
Disease(s) : Airway diseases, Respiratory infections, Interstitial lung diseases, Respiratory critical care, Respiratory infections, Pulmonary vascular diseases
Method(s) : Epidemiology, Transplantation, Surgery, General respiratory patient care, Physiology
Chairs : Nikolaos Tzanakis (Heraklion (Crete), Greece), Maurizio Marvisi (Cremona (CR), Italy)

PA5282 Study of lung functions (LF) in patients with Human Immunodeficiency Virus (HIV) infection
Thi ha (Yangon, Myanmar), Aung Kyaw Soe, Ye Ye Naing

PA5283 Forced oscillometry for early detection of bronchiolitis obliterans (BO) following hematogenous stem cell transplant (HSCT)
Qian Huang (Toronto (ON), Canada), Qian Huang, Elizabeth Cho, Tong Xu, Lauren Day, Henry Furlott, Clodagh Ryan, Jeff Lipton, Chung-Wai Chow

PA5284 Late Breaking Abstract - Hypoxic Challenge Testing: Practice Experience In Tallaght Hospital/Dublin."Time to improve training for hypoxic pulmonary challenge test"
Amel Alameeri (Dublin, Ireland)

PA5285 Effect of positional changes on lung diffusing capacity in heart failure
Caitlin Fernoyme (Rochester, United States of America), Steven Chase, Glenn Stewart, Bruce Johnson

PA5286 Relationship between abnormal preoperative spirometry, postoperative mortality and pulmonary complications in non-thoracic surgery
Catarina Marques (Gondomar, Portugal), Daniela Machado, Inês Ladeira, Ricardo Lima, Joana Gomes, Miguel Guimarães

PA5287 Effect of Gender and Abdominal Obesity on Airway Mechanics
Anjana Talwar (Noida (Uttar Pradesh), India), Anjali Trivedi, Meghashree Sampath, Geetanjali Bade

PA5288 Prediction of obstructive lung function and the risk of complications in morbidly obese patients undergoing bariatric surgery
Harman Singh (Rotterdam, Netherlands), Yasemin Türk, Astrid Van Huisssteder, Erwin Birnie, Ulas Biter, Pieter Hiemstra, Gert-Jan Braunsahl

PA5289 Physical activity and incidence of restrictive spirometry pattern in adults.
Anne-Elie Carsin (Barcelona, Spain), Dirk Keidel, Elaine Fuertes, Medea Imbonde, Joost Weyler, Dennis Nowak, Joachim Heinrich, Isabel Urrutia, Jose Martinez-Moratala, S Caviezel, A Beckmeyer-Borowko, Chantal Raherison, Isabelle Pin, Pascal Demoly, Benédicte Leynaert, I Cerveri, Roberto Bono, Simone Accordini, A Amaral, Thorarig Gislason, Cecile Svanes, K Toren, Bertil Forsberg, Christer Janson, S Dharmage, Rain Jogi, Jm Anto, Nicole Probst-Hensch, Judith Garcia-Aymerich

PA5290 Artificial intelligence improves experts in reading pulmonary function tests

PA5291 Interest to practice a peak expiratory flow in the cough DET in prone position at the patient affected by neuromuscular disease.
Leila Laouar (Alger, Algeria), Sonia Nouioua, Mohamed Islam Kediha, Lamia Ali Pacha, Meriem Tazir, Samya Taright

PA5292 The frequent exacerbator phenotype in bronchiectasis: predictors and particularities
Ahmed Ben Saad (Monastir, Tunisia), Saousen Cheikh Mhamed, Ghassen Trigui, Nesrine Fahem, Asma Migaou, Samah Joober, Naceur Rouatbi
Impulse oscillometry differentiates the lungs of elderly with and without metabolic syndrome: a functional and immunological approach
Maysa Rangel (Sao Jose Dos Campos (SP), Brazil), Tamara Costa-Guimarães, Giovana Gabriela-Pereira, Alana Santos-Dias, Manoel Carneiro Oliveira-Junior, André Luis Lacerda Bachi, Amanda Cristina Araújo-Rosa, Claudio Ricardo Frison, Sérgio Roberto Nacif, Rodolfo Paula Vieira

Association of height growth in puberty with maximally attained lung function
Osama Mahmoud (Bristol (Avon), United Kingdom), Raquel Granell, Kate Tilling, Cosetta Minelli, Judith Garcia-Aymerich, John Holloway, Adnan Custovic, Deborah Jarvis, Jonathan Sterne, John Henderson

Risk factors for acute exacerbation of interstitial pneumonia after surgery with general anesthesia
Keisuke Hosoki (Tokyo, Japan), Yu Mikami, Kunihiko Soma, Toshio Sakatani, Yukio Sakamoto, Hirokazu Urushiyama, Takahide Nagase, Taisuke Jo

Is preoperative pulmonary evaluation necessary in renal transplant patients?
Nilay Orak Akbay (İstanbul, Turkey), Fatih Gokhan Akbay, Suheyla Apaydin, Volkan Tugcu

Updated prevalence and risk factors for bronchiolitis obliterans syndrome after allogeneic stem cell transplantation.
Jhanavi Ragaswamy (Melbourne (VIC), Australia), Sharon Avery, Brigitte Borg, Catherine Martin, Eli Dabscheck

7.3J Session 539 08:30 - 10:30
Poster discussion: The airway microbiome across the spectrum of airway disease

Disease(s) : Airway diseases Respiratory infections Respiratory critical care Respiratory infections
Method(s) : Public health Cell and molecular biology General respiratory patient care Respiratory intensive care
Chairs : Maria Rosa Faner Canet (Barcelona, Spain), Eleni Papakonstantinou (Thessaloniki, Greece)

Influence of bacteria from the COPD lung microbiome on cigarette smoke-induced pro-inflammatory responses of three-dimensional lung epithelial cultures
qi ni (Ghent, Belgium), Charlotte Rigauts, Lisa Ostyn, Eva Vandeplasse, Guy Brusselle, Tom Coenye, Ken Bracke, Aurélie Crabbé

Non-typeable Haemophilus influenzae infection of ciliated epithelium from healthy and chronic obstructive pulmonary disease donors

Volatile organic compound (VOC) analysis to differentiate between bacterial and viral respiratory infections in COPD
Faisal Kamal (London, United Kingdom), Sacheen Kumar, Aran Singanayagam, Michael Edwards, Andrea Romano, Kirrill Vesikov, Ivan Laponogov, Gavin Donaldson, Sebastian Johnston, Jadhiga Wedzicha, George B Hanna

Utility of CAT questionnaire in the diagnosis of bacterial colonization in Bronchiectasis
ANNA FELIU (BARCELONA, Spain), Ana Rodrigo-Troyano, Lidia Perea, Jordi Giner, Diego Castillo, Ferran Sánchez-Reus, David De La Rosa, Miguel Ángel Martínez-Garcia, Oriol Sibila Vidal

Longitudinal profiling of viral infections in COPD patients and their implication to exacerbations
Eleni Papakonstantinou (Thessaloniki, Greece), Daiana Stolz (Basel, Switzerland), Hans Hirsch, Daniel Schilter, Renaud Louis, Janko Rakic, Lucas Boeck, Eleni Papakonstantinou, Christian Schindler, Leticia Grize, Michael Tamm

Sputum biospecimen quality and suitability for microbiome characterisation in COPD
Ian A. Yang (Chermise, Australia), Janet Shaw, Hannah O'Farrell, Olivia Ferry, Pamela Fung, Deborah Courtney, Rayleen Bowman, Kwun Fong

Moraxella catarrhalis infection of healthy and COPD ciliated epithelial cultures
Simona Velkova (London, United Kingdom), Alina Petris, Dani Lee, Primrose Freestone, Rick Williamson, Soren Beinke, Nikolai Belyaev, Edith Hessel, Dale Moulding, Rosalind Smyth, Claire Smith, Christopher O'Callaghan

Relationship between the respiratory microbiome and systemic patterns in COPD
Laura Millares Costas (Badaloná (Barcelona), Spain), Sergi Pascual, Cristina Lahlmolda, Marian García-Nuñez, Rosa Faner, Carme Casadevall, Laia Seto, Oscar Cuevas, Silvia Capilla, Amalia Moreno, Ady Castro, Carlos Alvarez, Oriol Sibila, German Peces-Barba, Borja Cosio, Concepción Monton, Alvar Agusti, Joaquim Gea, Eduard Monsó

What is the best technique to extract bacterial DNA from sputum?
Martina Oriano (Milan, Italy), Leonardo Terranova, Luca Ruggiero, Camilla Tafuro, Antonio Teri, Lisa Cariani, Elisa Franceschi, Francesco Amati, Andrea Gramigna, Martina Contarini, James D Chalmers, Paola Marchisio, Stefano Aliberti, Francesco Blasi
Symposium: The asthma-allergy “family”
Relationships within and beyond the lungs

Aims: to provide practicing clinicians an update on the molecular biology and pathology of the “organs” that associate with asthma and to describe how these “organs” and allergy connect to asthma. These “organs” include the gut, skin, nose and small airways. This session will help day-to-day clinicians to become aware of the roles that these “organs” play in the clinical manifestations of asthma. This session will also provide an update on the immunoregulatory pathways that are involved in the clinical manifestations of asthma.

Disease(s): Airway diseases
Method(s): Cell and molecular biology  General respiratory patient care
Tag(s): Translational
Target audience: Allergist, Clinical researcher, General practitioner, Nurse, Paediatrician, Pathologist, Patient, Scientist (basic, translational), Student, Trainee
Chairs: Ay e Arzu Yorganc o lu (Izmir, Turkey), Apostolos Bossios (Stockholm, Sweden)

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<th>Time</th>
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<tr>
<td>10:45</td>
<td>5319</td>
<td>Patient testimonial</td>
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<td></td>
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<td>Maria Stefandsdottir (Reykjavik, Iceland)</td>
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<td>10:55</td>
<td>5320</td>
<td>The gut</td>
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<td>Cezmi A. Akdis (Davos, Switzerland)</td>
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<td>11:22</td>
<td>5321</td>
<td>The skin</td>
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<td>Isabella Annesi Maesano (Paris, France)</td>
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<td>11:50</td>
<td>5322</td>
<td>Allergy</td>
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<td>Ioana Agache (Brasov (Brasov), Romania)</td>
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7.1A  Session 543  10:45 - 12:45

Hot topics: Important changes in the management of tuberculosis

Aims: New developments in translational research are having a significant impact on the clinical management of TB. This session will give attendees an idea of the future and how we will eventually be able to eradicate TB.

Disease(s): Respiratory infections

Method(s): Cell and molecular biology  General respiratory patient care  Public health

Tag(s): Translational

Target audience: Clinical researcher, Patient, Policy maker, Scientist (basic, translational), Trainee, Adult pulmonologist/Clinician

Chairs: Keertan Dheda (Cape Town, South Africa), Martina Sester (Homburg (Saar), Germany)

10:45  When will genetic testing replace standard drug susceptibility testing?
Daniela Maria Cirillo (Milano (MI), Italy)

11:15  Tuberculosis in vulnerable populations: the E-DETECT TB project
Alberto Matteelli (Brescia (BS), Italy)

11:45  ERS/ECDC updated European Union standards of tuberculosis care
Marieke van der Werf (Stockholm, Sweden)

12:15  Can we predict who will develop TB among those with a positive interferon- release assay (IGRA)?
Graham H. Bothamley (London, United Kingdom)

7.1B  Session 544  10:45 - 12:45

Symposium: Endoscopic solutions for obstructive lung diseases

Endoscopic solutions for obstructive lung diseases

Aims: to describe the minimally invasive solutions that are increasingly being offered for obstructive lung diseases. The symposium will describe the limitations and complications of each solution and provide recommendations.

Disease(s): Airway diseases

Method(s): Endoscopy and interventional pulmonology  Imaging

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Nurse, Physiotherapist, Radiologist, Student, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

Chairs: Daniela Gompelmann (Heidelberg, Germany), Gerard J. Criner (Philadelphia, United States of America)

10:45  Endoscopic lung volume reduction
Felix J.F. Herth (Heidelberg, Germany)

11:15  Endoscopic treatment of severe asthma
Pallav L. Shah (London, United Kingdom)

11:45  Chronic bronchitis and endoscopy
Karin Klooster (Groningen, Netherlands)

12:15  Targeted lung denervation
Coenraad Frederik Nicolaas Koegelenberg (Cape Town, South Africa)

7.3C  Session 545  10:45 - 12:45

Symposium: Palliative care specific for respiratory diseases

Aims: to describe the current state-of-the-art of palliative care in the specific setting of respiratory disease. Special attention will be paid to the following: the collaboration between the patient and the professional team; the specific problems that are faced in lung cancer; and the specific problems that are encountered in patients with chronic obstructive pulmonary disease or interstitial lung disease and patients admitted to the intensive care unit.
**Disease(s)**: Interstitial lung diseases, Thoracic oncology
**Method(s)**: General respiratory patient care, Respiratory intensive care, Surgery
**Tag(s)**: Clinical
**Target audience**: Critical/Intensive care physician, General practitioner, Nurse, Patient, Student, Thoracic oncologist, Thoracic surgeon, Trainee, Adult pulmonologist/Clinician

**Chairs**: Lieuwe Bos (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)

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<tr>
<td>10:45</td>
<td>5332</td>
<td>Palliative care - an alliance between the patient, the pulmonologist and the palliative care team</td>
<td>Claudia Bausewein (München, Germany)</td>
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<tr>
<td>11:15</td>
<td>5333</td>
<td>Palliative care specific for lung cancer</td>
<td>Torsten G. Blum (Berlin, Germany)</td>
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<td>11:45</td>
<td>5334</td>
<td>Palliative care specific for patients with chronic respiratory disease</td>
<td>David M. G. Halpin (Exeter Devon, United Kingdom)</td>
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<tr>
<td>12:15</td>
<td>5335</td>
<td>End-of-life care specific for patients in the intensive care unit</td>
<td>J. Randall Curtis (Seattle, WA, United States of America)</td>
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**7.3Z1**

**Session 546** 10:45 - 12:45

**Hot topics: Emerging and novel imaging biomarkers in drug-induced interstitial lung disease**

**Aims**: (i) To explore the current evidence regarding drug-induced lung toxicity, thereby highlighting its growing impact; (ii) to describe the in vivo models that are being used to elucidate the cell and extracellular matrix changes that underlie drug-induced interstitial lung disease (DIILD) and to identify imaging biomarkers for the detection and quantification of DIILD; (iii) to describe the new imaging techniques for assessing interstitial lung disease and their potential usefulness in DIILD; and (iv) to describe the potential clinical uses of molecular probes for detecting, staging and quantifying fibrosis and fibrogenesis.

**Disease(s)**: Interstitial lung diseases
**Method(s)**: Imaging
**Tag(s)**: Clinical
**Target audience**: Clinical researcher, Radiologist, Scientist (basic, translational), Student, Trainee, Adult pulmonologist/Clinician

**Chairs**: Philippe Camus (Dijon, France), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

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<tr>
<td>10:45</td>
<td>5336</td>
<td>Drug-induced interstitial lung disease: known knowns and known unknowns</td>
<td>Elisabeth Bendstrup (Vejle, Denmark)</td>
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<tr>
<td>11:15</td>
<td>5337</td>
<td>MRI and CT imaging of in vivo models of drug-induced interstitial lung diseases.</td>
<td>Irma Mahmutovic Persson (Lund, Sweden)</td>
</tr>
<tr>
<td>11:45</td>
<td>5338</td>
<td>Use of MRI for functional and structural assessment of interstitial lung disease</td>
<td>James M. Wild (Sheffield (South Yorkshire), United Kingdom)</td>
</tr>
<tr>
<td>12:15</td>
<td>5339</td>
<td>Non-invasive molecular imaging of pulmonary fibrosis</td>
<td>Sydney Montesi (Boston, United States of America)</td>
</tr>
</tbody>
</table>

**7.3B**

**Session 547** 10:45 - 12:45

**Oral presentation: Advances in exercise physiopathology**

**Disease(s)**: Airway diseases, Pulmonary vascular diseases, Sleep and breathing disorders
**Method(s)**: Imaging, Physiology
**Chairs**: Samuel Vergès (Grenoble, France), Thomas Radtke (Zürich, Switzerland)

**OA5340**

Effects of acute dual bronchodilator treatment (tiotropium + olodaterol) on cardiopulmonary interactions in hyperinflated patients with COPD
Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Renata Diniz Marques, Brandon Palmer, Katherine Webb, Denis E O’Donnell, J Alberto Neder

**OA5341**

Pulsed inhaled nitric oxide (iNO) improves exercise tolerance and shortness of breath (SOB) in severe COPD subjects with pulmonary hypertension (PH)
Bita Hajian (Huizen, Netherlands), Bharati Shivalkar, Francisca Ferreira, Cedric Van Holsbeke, Wim Voss, Jan De Backer, Peter Fernandes, Kathleen Sartoris, Deborah Quinn, Annemie Hufkins, Paul M Parizel, Johan Cluckers, Wilfried De Backer
Ventilatory assistance decreases mechanical-inspiratory constraints and improves exercise tolerance in overlapping COPD-heart failure.
Aline Souza (Belo Horizonte (MG), Brazil), Adriana Mazzuco, Maria Clara Alencar, Flávio Arbex, Mayron Faria, Wladimir Muzzeti, Denis E. O’Donnell, Luiz Eduardo Nery, J Alberto Neder, Priscila Sperandio

Effect of dexamethasone on cerebrovascular hemodynamics in lowlanders with COPD travelling to 3100m.
Michael Furian (Zürich, Switzerland), Sara E Hartmann, Mona Lichtblau, Sayaka S Aeschbacher, Batyr Osmonov, Maya Bisang, Stefanie Ulrich, Hannes Knapp, Erkin Mirrakhimov, Talant Sooronbaev, Silvia Ulrich, Marc J Poulin, Konrad E Bloch

Cardiopulmonary exercise test for risk assessment in lung resection surgery
Danielle Cristine Campos Bedin (São Paulo (SP), Brazil), Roberta Pulcheri Ramos, Elaine Brito Vieira, Sonia Maria Faresin, Luiz Eduardo Nery

Prediction algorithm of Wmax in COPD and evaluation by Cardiopulmonary Exercise Testing.
Georgia Papapostolou (Lund, Sweden), Linnea Jarenbäck, Jaro Ankerst, Leif Bjermer, Saga Jönsson, Stefan Peterson, Finn Radner, Ellen Tufvesson, Göran Eriksson

LSC - 2018 - PRRX1 a pro-fibrotic mesenchymal transcription factor modulated by remodeled microenvironment in IPF
Emmeline Marchal-Duval (Duesseldorf, Germany), Antoine Froidure (antoine.froidure@uclouvain.be / Fondation Saint-Luc UCL,Belgium), Madeleine Jailet (madeleine.jailet@inserm.fr / INSERM U1152,Paris), Mada Ghanem (mada.ghanem@inserm.fr / INSERM U1152,Paris), Audrey James (audrey.joannes@insERM.fr / INSERM U1152,Paris), Arnaud Maurac (arnaud.maurac@gmail.com / INSERM U1152,Paris), Aurelie Cazes (aurelie.cazes@aphp.fr / Hôpital Bichat Service d'anatomopathologie,Paris), Pierre Mordant (pierre.mordant@aphp.fr / Hôpital Bichat Service de Chirurgie Thoracique,Paris), Hervé Mal (herve.mal@aphp.fr / Hôpital Bichat Service de Pneumologie B,Paris), Bruno Crestani (bruno.crestani@aphp.fr / Hôpital Bichat Service de Pneumologie A,Paris), Arnaud Mailleux (arnaud.mailleux@insERM.fr / INSERM U1152,Paris)

LSC - 2018 - FKBP10 regulates fibroblast migration via synthesis of collagen VI
Claudia Staab-Weijnitz (München, Germany), Larissa Knüppel, Katharina Heinzelmann (katharina.heinzelmann@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz-Zentrum München, Munich, DE; Member of the German Center of Lung Research (DZL),Munich), Michael Lindner (m.lindner@asklepios.com / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Rudolf Hatz (rudolf.hatz@med.uni-muenchen.de / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Jürgen Behr (juergen.Behr@med.uni-muenchen.de / Asklepios Fachkliniken München-Gauting, Munich, DE, Munich), Oliver Eickelberg (OLIVER.EICKELBERG@UCDENVER.EDU / Pulmonary and Critical Care Medicine University, Colorado Anschutz Medical Campus, Denver, Colorado, United States of America,Munich), Claudia A. Staab-Weijnitz (staab-weijnitz@helmholtz-muenchen.de / Comprehensive Pneumology Center, Helmholtz-Zentrum München, Munich, DE; Member of the German Center of Lung Research (DZL),Munich)

LSC - 2018 - Collagen-producing macrophages can mediate lung fibrosis through Fra-2/AP-1 expression
Alvaro Conrado Ucero

Growth hormone-releasing hormone receptor antagonist MIA-602 modulates mouse lung inflammation and fibrosis due to bleomycin
Robert M. Jackson (Miami, United States of America), Lin Ai, Chongxu Zhang, Gaetan Delcroix, Tengjiao Cui, Xianyang Zhang, Mehdi Mirzaei, Aaron LaZerson, Andrew Schally

MKP-5 inhibition blunts fibrotic responses in-vitro and in-vivo through negative regulation of TGFB1-induced smad3-signalling
Argyris Tzouvelekis (Athens, Greece), Nikolaos Xylourgidis, Kiskuk Min, Thodoris Karpitsakos, Ioanna Ninou, Ilianna Barbayianni, Anton Bennett, Vassilis Aidinis, Naftali Kaminski

Involvement of GPx4-regulated lipid peroxidation in IPF pathogenesis.
Kazuya Sutsbuchi (Tokyo, Japan), Jun Araya, Shunsuke Minagawa, Hiromichi Hara, Yusuke Hosaka, Akihiro Ichikawa, Nayuta Saito, Masahiro Yoshida, Takeo Ishikawa, Takanori Numata, Yumi Kaneko, Katsutoshi Nakayama, Kazuyoshi Kuwano
## Symposium: Effects of smoking on asthma

**Effects of smoking cessation on asthma immunology and outcomes**

**Aims:**
- To provide pulmonologists, paediatricians, investigators and health allied professionals with an update on smoking in asthma.
- To describe new information about the smoking cluster of patients with severe asthma.
- To describe how to handle the smoking asthmatic phenotype.
- To encourage concern about special groups of smokers (pregnant women, parents, etc.).
- To highlight the need for organising specific programs for asthmatics who smoke.

**Disease(s):**
- Airway diseases
- Paediatric respiratory diseases

**Method(s):**
- Cell and molecular biology
- Epidemiology
- Physiology
- Public health
- Pulmonary function testing

**Tag(s):**
- Clinical

**Target audience:**
- Allergist
- Clinical researcher
- Critical/Intensive care physician
- General practitioner
- Lung function technologist
- Nurse
- Paediatrician
- Pathologist
- Patient
- Physiotherapist
- Policy maker
- Scientist (basic, translational)
- Student
- Trainee
- Adult pulmonologist/Clinician

**Chairs:**
- Michael Peters (San Francisco, United States of America)
- Stylianos Loukides (Athens, Greece)

### Session 549 10:45 - 12:45

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Author</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Characteristics of the smoking asthmatic patient cluster - data from U-BIOPRED</td>
<td>Christos Rossios (London, United Kingdom)</td>
</tr>
<tr>
<td>11:15</td>
<td>How smoking modifies inflammation and immunology of asthma</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
</tr>
<tr>
<td>11:45</td>
<td>Patient perspective – panel discussion (patients: Breda Flood and Dominique Hamerlijnck)</td>
<td>Breda Flood (Gorey, Ireland)</td>
</tr>
<tr>
<td>12:15</td>
<td>Smoking cessation interventions and asthma control: for whom, how, what to expect</td>
<td>Paraskevi Katsaounou (Athens, Greece)</td>
</tr>
</tbody>
</table>

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## Oral presentation: Progress in basic and translational research on idiopathic interstitial pneumonias

**Disease(s):**
- Interstitial lung diseases

**Method(s):**
- General respiratory patient care
- Cell and molecular biology

**Chairs:**
- Toby Maher (St. Albans (Hertfordshire), United Kingdom)
- Francesco Bonella (Düsseldorf, Germany)

### Session 550 10:45 - 12:45

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Author</th>
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<tbody>
<tr>
<td>10:50</td>
<td>Late Breaking Abstract - Effectiveness and tolerability of pirfenidone (PFD) in patients with idiopathic pulmonary fibrosis (IPF) from a large Italian practice cohort</td>
<td>Carlo Vancheri (Catania (CT), Italy), Alfredo Sebastiani, Paola Rottoli, Fabrizio Luppi, Sergio Harari, Alessandra Ghirardini, Klaus-Uwe Kirchgaessler, Sara Tomassetti</td>
</tr>
<tr>
<td>11:00</td>
<td>BAL cell transcriptome predicts survival in IPF and can be used to gauge and model treatment effects interfering with the TGF-beta pathway</td>
<td>Antje Prasse (Hannover, Germany), Alfonso Carleo, Benedikt Jaeger, Jonas Schupp, Paola Rottoli, Wim Wuyts, Naftali Kaminski</td>
</tr>
<tr>
<td>11:30</td>
<td>Synergistic Drug Combination of Nintedanib and Vardenafil Inhibits Fibrosis in AKR-2B Fibroblasts</td>
<td>Michael Bourne (Rochester, United States of America), Theodore Kottom, Andrew Limper</td>
</tr>
<tr>
<td>11:50</td>
<td>CHIT1 is a novel therapeutic target in idiopathic pulmonary fibrosis (IPF): anti-fibrotic efficacy of OATD-01, a potent and selective chitinase inhibitor in the mouse model of pulmonary fibrosis</td>
<td>Barbara Dymek (Warszawa, Poland), Piotr Sklep kiewicz, Michal Mlacki, Agnieszka Zagodzdon, Robert Koralewski, Marzena Mazur, Magdalena Paplinska-Goryca, Patrycja Nejman-Gryz, Małgorzata Proboszcz, Katarzyna Gorska, Marta Maskey-Warzechowska, Natalia Przysucha, Rafał Krenke, Adam Golebiowski, Pawel Dobrzanski, Karolina Dzwonk</td>
</tr>
<tr>
<td>12:10</td>
<td>Molecular Markers of Telomere Dysfunction and Senescence are Common Findings in the Usual Interstitial Pneumonia Pattern of Lung Fibrosis</td>
<td>Joyce Lee (Cherry Hills Village, United States of America), Janet La, Sara Aziz, Robert Brownell, Kirk Jones, Gary Green, Brett Elicker, Jeffrey Golden, Michael Matthay, Jasleen Kukreja, Harold Collard, Paul Wolters</td>
</tr>
</tbody>
</table>
Session 551 10:45 - 12:45

**Oral presentation: Upper airways morphology and diagnostics, and the challenges associated with mandibular advancement**

**Disease(s):** Sleep and breathing disorders

**Method(s):** General respiratory patient care, Public health, Imaging, Physiology

**Chairs:** Johan Verbraecken (Edegem (Antwerp), Belgium), Esther Irene Schwarz (Zürich, Switzerland)

**OA5366** Late Breaking Abstract - The effectiveness of NAS therapy for the treatment of mild to moderate OSAS
Kengo Ohtsuka (Tokyo, Japan), Koichi Fukunaga, Rie Baba, Mizuha Haraguchi, Ryutarou Shirahama, Hiroshi Senoura, Naoki Miyao, Tomoko Betsuyaku

**OA5367** The position of the mandible plays a key role for determining airflow during sleep.
Jean-Benoit Martinoit (Namur, Belgium), Nhat-Nam Le-Dong, Boutheina Melki, Valerie Cuthbert, Stéphane Denison, Jean Christian Borel, Jean-Louis Pépin

**OA5368** Ultrasonography of oropharynx and surrounding soft tissues as a screening tool for OSA
Dhruva Chaudhry (Rohtak (Haryana), India), Manjunath Govindagoudar, Jyotsna Sen, Neetu Jain, Mansi Gupta, Brijesh Prajapat, Debraj Jash

**OA5369** How lateral airway tissues affect upper airway dimensions with mandibular advancement in obstructive sleep apnoea.
Liz Brown (Sydney (NSW), Australia), Lauriane Juge, Peter Burke, Kate Sutherland, Peter Cistulli, Lynne Bilsom

**OA5370** Evaluation of upper airway anthropometry by ultrasonography in obstructive sleep apnea patients
Manjunath Govindagoudar (Bagalkot (Karnataka), India), Dhruva Chaudhry, Jyotsna Sen, Neetu Jain, Debraj Jash, Brijesh Prajapat

**OA5371** Spectral analysis of peri-pharyngeal muscles’ EMG in patients with OSA and healthy subjects during wakefulness and sleep.
Arie Oliven (Haifa, Israel), Guy Cohen, Rom Oliven, Alan Schwartz

**OA5372** Mandibular advancement therapy does not reduce inflammatory and metabolic biomarkers in patients with severe OSA: a randomized controlled trial
Wojciech Trzezegrz (Angers CEDEX 9, France), Sylvain Recoquillon, Jean-Louis Pépin, Bruno Vielle, Vanessa Bironneau, Frédérique Chouet-Girard, Sandrine Launois, Nicole Meslier, Jean-Claude Meurice, Xuan-Lan Nguyen, Audrey Paris, Pascaline Priou, Renaud Tamisier, François Goupil, Bernard Fleury, Frédéric Gagnadoux

**OA5373** Long-term objective compliance with a mandibular advancement device and continuous positive airway pressure in moderate obstructive sleep apnea
Grietje E. De Vries (Groningen, Netherlands), Aarnoud Hoekema, Johannes Claessen, Cornelis Stellingsma, Boudewijn Stegenga, Huib Kersjens, Peter Wijkstra
O5A375

**LSC - 2018 - A requirement for mast cells in lung adenocarcinoma**

Giannoula Ntaliarda (Patra, Greece), Ioannis Lilis (iioannislilis@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Vassilios Papaleonidopoulos (papaleon@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Ioanna Giovanou (giovanou@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Maria Oplopoiou (moplopoiou@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Marina Lianou (pia2306@upnet.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Georgia A. Giotopoulou (giotopoulou.g@gmail.com / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Antonia Marazioti (amarazioti@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Magda Spella (magsp@upatras.gr / Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio), Sebastian Marwitz (smarwitz@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel, Airway Research Center North (ARCN); Member of the German Center for Lung Research (DZL), Borstel), Torsten Goldmann (tgoldmann@fz-borstel.de / Clinical and Experimental Pathology, Research Center Borstel, Airway Research Center North (ARCN); Member of the German Center for Lung Research (DZL), Borstel), Vasiliki Bravou (vbrav@upatras.gr / Department of Anatomy-Histology-Embryology, Faculty of Medicine, University of Patras, Rio), Georgios T. Stathopoulos (gstatthop@upatras.gr / Department of Anatomy-Histology-Embryology, Faculty of Medicine, University of Patras, Rio)

**OA5376**

**TRAP1 downregulation could overcome gefitinib resistance in NSCLC via EMT reversal**

Su Jin Oh (Iksan, Republic of Korea), Ki Eun Hwang, Eun Taik Jeong, Hak Ryul Kim

**OA5377**

**ADAM28 deletion in mice impacts lung metastasis formation**

Céline Hubeau (Liège, Belgium), Catherine Gerard, Oriane Carnet, Markus Moser, Agnes Noël, Didier Cataldo, Natacha Rocks

**OA5378**

**NTHi-induced inflammation activates the PD-1 immune checkpoint in the tumor microenvironment**

Christoph Beisswenger (Homburg (Saar), Germany), Felix Ritzmann, Giovanna Vella, Christian Herr, Robert Bals

**OA5379**

**Inhibitory effects of mitochondrial TRAP1 on gefitinib-resistance in non-small lung cancer cells**

Ki Eun Hwang (Iksan, Republic of Korea), Su Jin Oh, Eun Taik Jeong, Hak Ryul Kim

### 7.3P Session 553 10:45 - 12:45

**Oral presentation: Eosinophils in airway disease**

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** Physiology, Respiratory intensive care, General respiratory patient care, Cell and molecular biology

**Chairs:** Guy Brusselle (Ghent, Belgium), Péter Horváth (Budapest, Hungary)

**OA5381**

**Late Breaking Abstract - Protection by budesonide against clinically important deteriorations (CID) in patients with COPD is dependent on blood eosinophil counts (EOS)**

Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Dave Sing, Christine Jenkins, Stefan Peterson, Thomas Bengtsson, Malin Fagerås

**OA5382**

**Blood eosinophilia (BE) and outcomes in patients with acute severe exacerbations of COPD (AECOPD)**

Aung Kyaw Soe (Moscow, Russian Federation), Marina Semenovna Kevorkova, Galia Serikovna Nuralieva, Andrey Stanislavovich Belevskiy, Sergey Nikolaevich Avdeev, Alexander Grigoryevich Chuchalin

**OA5383**

**Peripheral eosinophils and mortality in COPD patients over nine years**

Robson Aparecido Prudente (Botucatu (SP), Brazil), Carolina Mesquita, Renata Ferrari, Estefânia Franco, Suzana Tanni

**OA5384**

**Relationship between blood eosinophil count and bronchial epithelial gene expression in COPD versus Asthma**

Leena George (Leicester (Leicestershire), United Kingdom), John Riley, Adam Taylor, Stewart Bates, Scott Wagers, Anna Esteve-Codina, Maria Artigas, Stelios Pavlidis, Dave Singh, Kian Fan-Chung, Peter Sterk, Christopher Brightling

**OA5385**

**Blood eosinophil count predicts severity of respiratory failure, death and future exacerbations in severe life-threatening asthma**

Anthony Yit (Singapore, Singapore), Tunn Ren Tay, Ser Hon Puah, Hui Fang Lim, Andrew Li, Priscilla Lau, Rae-Ann Tan, Lay Ping Neo, Mariko Si Yue Koh

**OA5386**

**Increased IL5, IL8 and eosinophils in induced sputum of asthmatics with accelerated FEV1 decline**

Mateja Marc Malovrh (Kranj, Slovenia), Luka Camlek, Sabina Skrgat, Manca Dezman, Izidor Kern, Peter Korosec
Persistent blood eosinophilia and COPD exacerbation risk after ICS withdrawal from triple therapy in the SUNSET study

John R Hurst (London, United Kingdom), Konstantinos Kostikas, Kenneth R. Chapman, Stefan-Marian Frent, Michael Larbig, Robert Fogel, Tadhg Guerin, Donald Banerji, Francesco Patalano, Pankaj Goyal, Pascal Pfister, Jadwiga A. Wedzicha

Biomarker measurement in asthma patients receiving biologic therapy: a real-world retrospective study

Nicola Hanania (Houston, United States of America), Juanzhi Fang, Lujia Zhou, Benjamin Ortiz, Abhishek Kavati, Xavier Jaumont, Luisa Alvares, Hui Cao

Session 554

Poster discussion: Endoscopic lung volume reduction

Airway diseases  Respiratory infections  Respiratory infections

Chairs: Dirk-Jan Slebos (Groningen, Netherlands), Konstantina Kontogianni (Heidelberg, Germany)

PA5389 Long-term follow-up after endoscopic valve therapy in patients with severe emphysema
Daniela Gompelmann (Heidelberg, Germany), Tobias Heinhold, Elena Bischoff, Ralf Eberhardt, Konstantina Kontogianni, Felix JF Herth, Matthias Rötting

PA5390 Influence of endoscopic lung volume reduction with valves on the pulmonary gas exchange
Katharina Stiehl (Essen, Germany), Darwiche Kaid, Rüdiger KarpF-Wissel, Heinz Steveling, Christian Taube, Jane Winantea

PA5391 Electromagnetic navigation bronchoscopy: parameters associated with a positive result
OSCAR CLAVERIA GARCIA (pamplona, Spain), Jessica Gonzalez, Andres Blanco, Luis Seijo, Juan Berto, Javier J. Zulueta

PA5392 Removal of diseased emphysematous tissue with bronchoscopic thermal vapor ablation (BTVA)
Felix J.F. Herth (Heidelberg, Germany), Daniela Gompelmann, Arschang Valipour, Greg Snell, Christian Grah, Christian Witt, Peter Hopkins, Ralf Eberhardt, Pallav Shah

PA5393 Quantitative CT Analysis for Fissure Completeness in Bronchoscopic Lung Volume Reduction
Sei Won Lee (Seoul, République de Korea), So Youn Shin, Tae Sun Park, Sang Young Oh, Sang Min Lee

PA5394 Five years outcome of Karakoca Resector Balloon dilalation and curetage method in Severe COPD (chronic obstructive pulmonary disease )
Yalcin Karakoca (Istanbul, Turkey), Guler Gogus, Seha Akduman, Baykal Erturk

PA5395 Computed Tomography Predictors of Pneumothorax and Hemoptysis after Endobronchial Valve Therapy for Emphysema
Diogo Oliveira (Porto Alegre (RS), Brazil), Miranda Kirby, Joshua Schirrm, Fabio Munhoz Svartman, Marcel Rodrigues, Pedro Grynblat, Hector Defranchi, Hugo Caballero Duran, Amanilio Viera Macedo Neto, Hugo Oliveira

PA5396 The "Coil Associated Opacity" in endoscopic emphysema treatment. Friend or foe?
Michael Perch (Gentofte, Denmark), Helle Hjort Johannesen, Anne-Marie Kastrup Fiehn, Mette Siemensen, Jann Mortensen

PA5397 Impact of radiological changes on treatment outcome following endoscopic lung volume reduction with coils (LVRC) in patients with advanced emphysema
Konstantina Kontogianni (Heidelberg, Germany), Vasiliki Gerovasili, Ralf Eberhardt, Felix J.F. Herth, Claus Peter Heussel, Daniela Gompelmann

PA5398 Efficacy and safety of bronchoscopic lung volume reduction (BLVR) modalities functioning independent of collateral ventilation in advanced emphysema: Systematic review and meta-analysis
Naveen Dutt (Jodhpur (Rajasthan), India), Neeti Rustagi, Surjit Singh, Shashank Shekhar, Ashok Kuwal, Kirti Chaudhry, Richard Kirubakaran

PA5399 Altered intercostal muscle structure following successful endobronchial lung volume reduction: a pilot study
Peter Wallbridge (Melbourne (VIC), Australia), Mark Hew, Selina Parry, Gary Hammerschlag, Louis Irving, Daniel Steinfort

PA5400 Endobronchial valves and spigots in a non-standard indication
Hana Bartáková (Praha, Czech Republic), Juraj Simovic, Jiri Votruba

PA5401 Changes in functional capacity after endoscopic lung volume reduction in patients with chronic obstructive lung disease and severe emphysema
Thomas Berghaus (Augsburg, Germany), Fabian Geissenberger, Stefanie Bader, Christian Faul, Martin Schwaiblmair
PA5402 Is bronchoscopic follow up useful after Bronhoscopic Lung Volume Reduction (BLVR) with endobronchial valves? Valentina Luzzi (Firenze (FI), Italy), Margherita Innocenti, Sofia Romani, Fausto Leoncini, Michela Bezzi

PA5403 Pneumothorax after Bronchoscopic Lung Volume Reduction with Endobronchial Valves(EBV-BLVR): Is there any correlation with number of valves? Valentina Luzzi (Firenze (FI), Italy), Mauro Novali, Michela Bezzi

PA5404 Fissure analysys with StratX software and Chartis system for bronchoscopic lung volume reduction (BLVR) with valves Valentina Luzzi (Firenze (FI), Italy), Margherita Innocenti, Fausto Leoncini, Michela Bezzi

PA5405 Reasons for not receiving interventional therapy in patients with severe emphysema Markus Polke (Heidelberg, Germany), Matthias Roetting, Nilab Sarmand, Ralf Eberhardt, Felix Herth, Daniela Gompellmann

PA5406 Physical activity in patients with endoscopic lung volume reduction measured with a SenseWear Armband Lea Schotten (Essen, Germany), Filiz Oezkan, Birte Schwarz, Jane Winantea, Christian Taube, Kaid Darwiche

Terminal 7 Session 555 10:45 - 12:45

Oral presentation: Hot topics in non-invasive ventilation

Disease(s): Sleep and breathing disorders, Airway diseases, Respiratory critical care, Respiratory infections

Method(s): Physiology, Respiratory intensive care, General respiratory patient care

Chairs: Marieke L. Duiverman (Groningen, Netherlands), João Carlos Winck (Vila Nova de Gaia, Portugal)

OA5407 Late Breaking Abstract - Exhaled air dispersion during application of CPAP via nasal pillows and oronasal mask versus high flow nasal cannula therapy David Shu Cheong Hui (Shatin, Hong Kong), Benny Chow, Matthew Chan

OA5408 Approaching the Non Invasive Ventilation (NIV) in Amyotrophic Lateral Sclerosis (ALS) at home: a Randomized Controlled Trial Eleonora Volpato (Milano (MI), Italy), Salvatore D'Ascenzo, Alessandra Montini, Mara Paneroni, Silvia Grilli, Michele Vitacca, Paolo Banfi

OA5409 The implementation of a psychological support during the adaptation to Non Invasive Ventilation (NIV) in Chronic Obstructive Pulmonary Disease (COPD): a Randomized Controlled Trial Eleonora Volpato (Milano (MI), Italy), Francesco Pagnini, Paolo Banfi


OA5411 Dexmedetomidine for sedation during noninvasive ventilation in acute respiratory syndrome patients Kateryna Bielka (Kyiv, Ukraine), Iurii Kuchyn

OA5412 Patient attitudes toward a handheld non-invasive ventilator to relieve breathlessness. Nicholas Lane (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Tom Hartley, Victoria Ferguson, Nikolaos Chynkamias, K Gray, Ioannis Vogiatzis, Stephen Bourke

OA5413 Respiratory Physiology-oriented High-intensity Non-invasive Ventilation Lili Guan (Guangzhou, China), Luqian Zhou, Rongchang Chen

OA5414 Long term positive airway pressure effectiveness in obesity hypoventilation syndrome. Pickwick study results Mª Angeles Sanchez Quiroga (Plasencia, Spain), Babak Mokhlesi, Jaime Corral PeñAffel, Maria Luz Alonso Alvarez, Estrella Ordx Carbajo, Maria Fernanda Troncoso Acevedo, Monica Gonzalez Martinez, Soledad Lopez Martin, Jose Maria Marin Trigo, Sergi Marti, Trinidad Díaz Cañabres, Eusebi Chiner Vives, Felipe Esteban Aizpuru Barandiaran, Carlos Javier Egea Santaolalla, Juan Fernando Masa Jimenez

7.2A Session 556 10:45 - 12:45

Poster discussion: Exploring the importance of daily physical activity in chronic respiratory disease

Disease(s): Airway diseases, Respiratory infections, Sleep and breathing disorders, Interstitial lung diseases, Respiratory infections

Method(s): Epidemiology, Public health, General respiratory patient care
### Chairs: Heleen Demeyer (Leuven, Belgium), Stephanie K. Mansell (Guildford (Surrey), United Kingdom)

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>PA5415</td>
<td>Factors associated with daily life physical activity in patients with asthma</td>
<td>Patricia Duarte Freitas (São Paulo (SP), Brazil), Simone T C Da Silva, Rafaela F Xavier, Regina M Carvalho-Pinto, Rafael Stelmach, Alberto Cukier, Milton A Martins, Celso R F Carvalho</td>
</tr>
<tr>
<td>PA5416</td>
<td>Identification of asthma phenotypes using cluster analysis</td>
<td>Patricia Duarte Freitas (São Paulo (SP), Brazil), Rafaela F Xavier, Simone T C Da Silva, Regina M Carvalho-Pinto, Rafael Stelmach, Alberto Cukier, Milton A Martins, Celso R F Carvalho</td>
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<td>PA5417</td>
<td>Previous physical activity level as a predictor of cognitive and emotional status during acute exacerbation of COPD</td>
<td>Irene Torres Sanchez (Santa Fe, Spain), Maria Granados Santiago, Ramón Romero-Fernández, Marie Carmen Valenza, Janet Rodriguez-Torres, Laura López-López</td>
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<tr>
<td>PA5418</td>
<td>Impact of physical activity level on symptomatology and functionality during an acute exacerbation in COPD patients.</td>
<td>Laura Lopez Lopez (Granada, Spain), Silvia Merlos Navarro, Ramón Romero Fernández, Maria Granados Santiago, Janet Remedios Rodríguez Torres, Irene Torres Sánchez</td>
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<tr>
<td>PA5419</td>
<td>Influence of physical activity, sedentary behaviour, body composition and skeletal muscle force to identify phenotypes in COPD patients: a 12 months follow-up</td>
<td>Rafaela Xavier (São Paulo (SP), Brazil), Aline Lopes, Ana Carolina Caporali, Rafael Stelmach, Frederico Fernandes, Regina Carvalho, Alberto Cukier, Ercy Ramos, Celso Carvalho</td>
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<tr>
<td>PA5420</td>
<td>Using physical capacity to classify inactivity in COPD</td>
<td>Susan Lasche (Groesbeek, Netherlands), Jeannette Peters, Hanneke Van Helvoort, Alex Van 'T Hul, Jeroen Van Hees</td>
</tr>
<tr>
<td>PA5421</td>
<td>Identifying inconsistencies in intervention descriptors and outcome reporting within systematic reviews of physical activity interventions in COPD</td>
<td>Hayley Lewthwaite (Adelaide (SA), Australia), Tanja W Effing, Tim Olds, Marie T Williams</td>
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<tr>
<td>PA5422</td>
<td>Sedentary behaviour in an Australian cohort of people with COPD</td>
<td>Sonia Cheng (Sydney (NSW), Australia), Zoe McKeough, Jennifer Alison, Sarah Dennis, Emmanuel Stamatakis</td>
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<td>PA5423</td>
<td>Effect of short-form, sun-style tai chi on physical activity in people with COPD</td>
<td>Sonia Cheng (Sydney (NSW), Australia), Zoe McKeough, Regina Leung, Sally Wootton, Jennifer Alison</td>
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<td>PA5424</td>
<td>Can do’ versus ‘do do’: a novel concept in patients with COPD</td>
<td>Noortje Koolen (Nijmegen, Netherlands), Jeroen Van Hees, Rob Van Lummel, Richard Dekhuijzen, Remco Djinmin, Martijn Spruit, Alex Van 'T Hul</td>
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<tr>
<td>PA5425</td>
<td>Classification Decision Tree models to understanding subjects with COPD physical activity profiles: Preliminary results</td>
<td>Antenor Rodrigues (Londrina (PR), Brazil), Luiz Antonio Lima Rodrigues, Lorena Paltain Schneider, Felipe Vilaça Cavalari Machado, Leticia Belo, Thais Paes, Karina Couto Furlanetto, Carlos Augusto Camillo, Nidia Aparecida Hernandes, Fabio Pitta</td>
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<tr>
<td>PA5426</td>
<td>Clinical characteristics, physical function, physical activity and their associations with body composition phenotypes in patients with COPD.</td>
<td>Felipe Machado (Londrina (PR), Brazil), Lorena Schneider, Jéssica Fonseca, Leticia Fernades, Camila Bonomo, Andrea Morita, Antenor Rodrigues, Karina Furlanetto, Josiane Felcar, Frits Fransen, Martijn Spruit, Fabio Pitta, Nidia Hernandez</td>
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<td>PA5428</td>
<td>Nocturnal sleep and daytime physical activity in patients with ILD: Preliminary results</td>
<td>Wagner F Aguiar (Londrina, Brazil), Humberto Silva, Thatielle G Silva, Aline F L Gonçalves, Walter A Sepúlveda, Paulo S Pereira, Vanessa S Probst, Fabio Pitta, Carlo A Camillo</td>
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<td>PA5429</td>
<td>Physical activity in cystic fibrosis related diabetes</td>
<td>Narelle Cox (Melbourne (VIC), Australia), Anne Holland, Jennifer Alison, Tiffany Dwyer</td>
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<tr>
<td>PA5430</td>
<td>Longitudinal assessment of physical activity: a methodological approach.</td>
<td>Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Matthias Loeckx, Fernanda Machiado Rodrigues, Wim Janssens, Thierry Troosters</td>
</tr>
</tbody>
</table>

#### 7.2B Session 557  10:45 - 12:45

**Poster discussion: New developments in paediatric asthma**
PA5432 Whole-genome sequencing of Costa Rican children with asthma identifies CRISPLD2 as a candidate gene for lung function
Bo Chawes (Brønshøj, Denmark), Julian Hecker, Christoph Lange, Scott Weiss, Jessica Lasky-Su

PA5433 Cord blood eosinophils and Type 2 Innate lymphoid cells are correlated in infants born to mothers with asthma during pregnancy
Gabriela Martins Costa Gomes (Newcastle (NSW), Australia), Patricia De Gouveia Belinelo, Malcolm R. Starkey, Kathryn Jesson, Phil M. Hansbro, Vanessa E. Murphy, Kate Hardaker, Paul D. Robinson, Peter D. Sly, Peter G. Gibson, Joerg Mattes, Adam M. Collison

PA5435 Topological data analysis (TDA) of U-BIOPRED paediatric peripheral blood gene expression identified asthma phenotypes characterised by alternative splicing of glucocorticoid receptor (GR) mRNA

PA5436 Weighted Gene Co-expression Network Analysis of blood paediatric samples from the U-BIOPRED study identifies oxidative stress association with asthma severity

PA5437 Phenotype-endotype in very severe preschool wheezers: The P’titAsthme cohort
Michael Fayon (Bordeaux, France), Valérie Siao, Stéphane Blanchon, Hugues Begueret, Antoine Benard, Patrick Berger

PA5438 Distinguishing wheezing phenotypes in childhood: a pooled analysis of five birth cohorts
Ceyda Oksel (London, United Kingdom), Raquel Granell, John Henderson, Adnan Custovic

PA5439 Incidence and risk factors of pediatric asthma exacerbations in a multinational, multidatabase cohort study
Esmé J. Baan (Rotterdam, Netherlands), Maria De Ridder, Marjolein Engelkes, Elisabeth Svensson, Daniel Prieto-Alhambra, Francesco Lapi, Carlo Giaquinto, Gino Picelli, Frank Albers, Lee Evitt, Eric Bradford, Melissa K Van Dyke, Peter Rijnbeek, Miriam Sturkenboom, Hettie M Janssens, Katja M C Verhamme

PA5440 Are episodic viral wheeze and multiple-trigger wheeze distinct and constant patterns?
Maud Raaymakers (Breda, Netherlands), Paul Brand, Marielle Pijnenburg, Anja Vassen-Verberne

PA5441 Correlation between RINT values and echocardiographic indices in pre-school children with chronic cough and wheezing.
Giuseppe Fabio Parisi (Catania (CT), Italy), Sara Manti, Valentina Giacchi, Pietro Sciaccia, Lucia Tardino, Caterina Cuppari, Carmelo Salpietro, Ashish Chikermane, Salvatore Leonardi

PA5442 Particles in exhaled air (PExA) in assessment of asthma in children
Maria Juusela (Espoo, Finland), Kristiina Malmström, Venla Aallonon, Seppo Sarna, Erik Qvist

PA5443 ReCIVA breath sampling in pediatric asthma: a feasibility study
Karl Holden (Leicester (Leicestershire), United Kingdom), Teresa Menally, Dahlia Salman, Caroline Beardsmore, Wadah Ibrahim, Chris Brightling, Salman Siddiqui, Paul Thomas, Erol Gaillard

PA5444 Asthma reviews in primary care which include spirometry lead to improved asthma control in children
David Lo (Rothley, United Kingdom), Lesley Danvers, Damian Roland, Matthew Richardson, Yaling Yang, Caroline Beardsmore, Andrew Wilson, Erol Gaillard

PA5445 Design and development of a simulation game for parents of preschool children with asthma: an evidence-based approach.
David Drummond (Paris, France), Antoine Tesniere, Alice Hadchouel
Substitution of outpatient care in asthmatic children by online monitoring: Barriers and facilitators for implementation


Mepolizumab for severe eosinophilic asthma: a comparison of efficacy in children, adolescents, and adults

Atul Gupta (London, United Kingdom), Jonathan Steinfeld, Robert Price, Jay Azmi, Eric Bradford, Steven Yancey

Effects of increased ventilation in homes of asthmatic, house dust mite allergic children: A randomised controlled trial

Sune Rubak (Odder, Denmark), Nina Viskum Hogaard, Susanne Haklen, Lone Agertoft, Thomas Houmann Petersen, Niels Küchen, Lars Bo Gunnarsen, Barbara Kolarik, Nadja Lyng, Michal Spilak, Marie Frederiksen, Torben Sigsgaard

Poster discussion: New therapies for respiratory infections: experimental and translational studies

7.2C  Session 558  10:45 - 12:45

Disease(s) : Respiratory infections  Respiratory critical care  Airway diseases  Respiratory infections

Method(s) : Physiology  Respiratory intensive care  General respiratory patient care  Cell and molecular biology

Chairs : Martin Witzenrath (Berlin, Germany), Anand Shah (London, United Kingdom)

PA5449  Late Breaking Abstract - Efficient replication of respiratory syncytial virus induces a decrease of mucociliary clearance in human small airway 3D culture

Paul Alouani (Plan les Ouates, Switzerland), Song Huang, Bernadett Boda, Rosy Bonfante, Jimmy Vernaz, Samuel Constant

PA5450  Late Breaking Abstract - Multidimensional genomic mapping reveals the pathophysiology of Mycobacterium abscessus

Lucas Boeck (Fulbourn (Cambridgeshire), United Kingdom), Marcin Skwark, Will Pearson, Sophie Burbaud, Jasper Sangen, Sony Malhotra, Josie Bryant, Tom L. Blundell, Marc Dionne, Julian Parkhill, Andres Floto

PA5451  Airway administration of therapeutic antibody (tAb) confers higher protection than parenteral administration in a murine model of acute lung infection

Thomas Secher (Tours, France), Emilie Dalonneau, Christelle Parent, Nathalie Heuzé-Vourc’H

PA5452  EPs®7630 reduced Rhinovirus bronchial epithelial cell infection and modified host defence systems

Michael Roth (Basel, Switzerland), Lei Fang, Daiana Stolz, Michael Tamm

PA5453  Therapeutic intratracheal phage application against Acinetobacter baumannii lung infection in mice

Sandra-Maria Wiemhold (Berlin, Germany), Markus Brack, Geraldine Nouailles, Claudius Setitz, Anton Ross, Holger Ziehr, Kristina Dietert, Corinne Gurtner, Olivia Kershaw, Achim Dieter Gruber, Manfred Rohde, Norbert Sutterp, Christine Rohde, Martin Witzenrath

PA5454  Intrapulmonary pharmacokinetics of laninamivir in healthy subjects: Comparison between a nebulizer and a dry powder inhaler

Kaoru Toyama (Tokyo, Japan), Hitoshi Ishizuka, Hidetoshi Furue

PA5455  Streptococcus pneumoniae inhibits Pseudomonas aeruginosa growth on nasal human epithelium in vitro

Song Huang (Plan les ouates, Switzerland), Carole Bertinetti, Ophélie Verbeke, Mireille Caul-Futy, Paul Alouani, Ludovic Wisniewski, Samuel Constant

PA5456  The biological effect of intrapleural tissue plasminogen (tPA) activator and DNase delivery in pleural infection patients.

Nikolaos Kanellakis (Patras, Greece), John Wrightson, Rob Hallifax, Rachel Mercer, Maged Fayed, Rachelle Asciak, Ioannis Psallidas, Najib Rahman

PA5457  Telavancin vs. linezolid in an animal model of severe MRSA pneumonia

Denise Battaglini (Genova, Italy), Gianluigi Li Bassi, Francesco Pagliara, Andrea Meli, Hua Yang, Minlan Yang, Ana Motos, Joaquim Bobi, Elisabet Aguilera, Tarek Sennusi, John Miller, Laia Fernandez, Enric Barbeta Viñas, Antoni Torres

PA5458  Experimental investigation of pulmonary Aspergillus infection in type 1 diabetes

Yao Ye (Shenyang, China), Wenyang Li, Wei Wang

PA5459  MAIT cells contribute to a protective antiviral innate response to influenza infection

Timothy Hinks (Oxford, United Kingdom), Bonnie Van Wilgenburg, Liyen Loh, Zhenjun Chen, Troi Pediongo, Huimeng Wang, Mai Shi, Zhe Zhao, Marios Koutsakos, Simone Nussing, Sneha Sant, Zhongfang Wang, Criselle D’Souza, Catarina Almeida, Patrick Reading, Alexandra Corbett, James Mccluskey, Paul Klenerman, Katherine Kedzierska
Tolerability of anti-infective N-chlortaurine inhaled with a smart-nebuliser
Bernhard Müllinger (Gauting, Germany), Roland Arnitz, Markus Stein, Petra Bauer, Barbara Lanthaler, Herbert Jamnig, Sabine Scholl-Bürgi, Katharina Stempil-Al-Jazrawi, Hanno Ulmer, Bernhard Baumgartner, Sabine Embacher, Simon Geisler, Johanna Gostner, Beate Kälz, Markus Nagl

The role of CARD9 in Pneumocystis host defense
June Chae (Rochester, United States of America), Vijayalakshmi Nandakumar, Deanne Hebrink, Theodore Kottom, Andrew Limper

High-dose nitric oxide as a potential new therapeutic agent against Mycobacterium abscessus.
Abdi Ghaffari (Kingston (ON), Canada), Joas Lucas Da Silva, Kristijan Bogdanovski, Adrian M. Zelazny, Kenneth N Olivier

Pattern of self-reported (cough focus) symptoms across several respiratory virus- human challenge studies
Alan Bell (Hertfordshire, United Kingdom), Michael Ghebre, Graham Clarke, Rob Lambkin Williams, Andrew Catchpole, Nicolas Noulain

Impact of age and gender on efficacy and safety of omadacycline (OMC) vs. moxifloxacin (MOX) in community-acquired bacterial pneumonia (CABP)
Lyne Garrity-Ryan (Boston, United States of America), Julio Ramirez, Surya Chitra, Courtney Kirsch, Amy Manley, Evan Tzanis, Paul C. Megovern

Blood eosinophilia in patients with COPD, a real life evaluation
Margarida Baptista Duarte Barata (Lisboa, Portugal), Teresa Martin, Ricardo Gomes, Helena Grumete, Fernando Menezes, José Duarte

Relationship between blood eosinophil levels and severity of COPD
Ahmed Ben Saad (Monastir, Tunisia), Rim Khemakhem, Sáoussen Cheikh Mhamed, Nesrine Fahem, Asma Migaou, Samah Joobeur, Naceur Rouatbi

Overlapping biologic exacerbation clusters in asthma and chronic obstructive pulmonary disease have distinct sputum mediator and microbiome profiles
Sarah Diver (Stockport (Cheshire), United Kingdom), Michael Ghebre, Pee Hwee Pang, Dhananjay Desai, Mona Bafadhel, Koirobi Haldar, Titiana Kedzdie, Suzanne Cohen, Paul Newbold, Laura Rapley, Joanne Woods, Paul Rugman, Ian Pavord, Sebastian Johnston, Michael Barer, Richard May, Christopher Brightling

10-year follow-up of hospitalised COPD-patients: Comorbidities, mortality and cause of death
Terttu Harju (Oulu, Finland), Lotta Peltonen, Heikki Pätsi, Risto Biloigui

Increased urinary l-histidine in patients with asthma–chronic obstructive pulmonary disease overlap
Jae Jeong Shim (Seoul, Republic of Korea), Jee Youn Oh, Juwhan Choi, Young Seok Lee, Kyung Hoon Min, Gyu Young Hur, Sung Yong Lee, Kyung Ho Kang

GC MS based untargeted metabolomics for understanding the pathophysiology of asthma COPD overlap (ACO)
Nilanjana Ghosh (Kharagpur (West Bengal), India), Sivakumar Raju Rathnakumar, Sandeep R. Kaushik, Rakesh Arya, Ranjan Nanda, Parthasarathi Bhattacharyya, Sushmita Roy Chowdhury, Rintu Banerjee, Koel Chaudhury

Identifying asthma features in severe COPD
Sandhya Matthes (München, Germany), Jakob Stadler, Jürgen Barton, Heidrun Villena-Hermoza, Marion Frankenberger, Nikolaus Kneidinger, Katrin Milger, Phillip Probst, Gabriela Leuschner, Dieter Muncker, Paola Arnold, Andrea Koch, Jürgen Behr, Claus Neuhoer

Comparing the different diagnostic criteria of Asthma and COPD overlap
Yong Suk Jo (Seoul, Republic of Korea), Min Hye Kang, Jeong Mi Lee, Seoung Woo Han, Chin Kook Rhee

“Asthma-like features” in Chronic Obstructive Pulmonary Disease (COPD) patients
M. L. E. Bartoli (Pisa (PI), Italy), Marta Daniele, Dario Nieri, Maria Adelaide Roggi, Matteo Bradicich, Roberta Del Cesta, Cristina Cardini, Silvana Cianchetti, Barbara Vagaggini, Pierluigi Paggiaro

Stability of the eosinophilic phenotype in stable and exacerbated COPD
Desiree Schumann (Basel, Switzerland), Michael Tammi, Kostantinos Kostikas, Daiana Stolz
<table>
<thead>
<tr>
<th>Session 560</th>
<th>10:45 - 12:45</th>
</tr>
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</table>

### Poster discussion: Determinants and monitoring of asthma control

**Disease(s):** Airway diseases  Respiratory critical care

**Method(s):** Cell and molecular biology  General respiratory patient care  Epidemiology

**Chairs:** Szymon Skoczyski (Katowice, Poland), Subhabrata Moitra (Barcelona, Spain)

#### PA5483
**Comparable efficacy of calcilytic and corticosteroid in short-term and long-term allergic asthma models in vivo**
Daniela Riccardi (Cardiff, United Kingdom), Ping Huang, Polina Yarova, Martin Schepelmann, Emma J Kidd, William R Ford, Kenneth J Broadley, Christopher J Corrigan, Jeremy Pt Ward, Paul J Kemp

#### PA5484
**A practical guide for interpretation of ERS guidelines for methacholine challenge test (MCT)**
Jason Suggett (London (ON), Canada), Mark Nagel

#### PA5485
**The research of cooperativity of patients with asthma**
Julita M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Larisa V. Bogovin, Elena I. Karapetian, Anastasia S. Shabanova

#### PA5486
**Role of Aspergillus infection in uncontrolled Asthma**
Sami Eldahdouh (Shebin Elkom, Egypt)

#### PA5487
**Valved holding chamber (VHC) angle can affect pressurized netered-dose inhaler (pMDI) medication delivery efficiency**
Jason Suggett (London (ON), Canada), Mark Nagel, Val Avvakoumova, Jolyon Mitchell

#### PA5488
**The changes of asthma control and management, patients' perception for the past decade in China**
Jiangtao Lin (Beijing, China), Wengqiao Wang, Xin Zhou, Xiaosheng Yin, Chuntao Liu, Changzheng Wang, Mao Huang, Ping Chen, Shaoxi Cai, Changgui Wu, Yadong Yuan, Jing Li, Qichang Lin, Jiangying Zhou, Huiguo Liu, Yuhai Gu, Xingang Huang, Dejun Sun, Xiaohong Yang, Lan Yang, Jianmin Huo, Zhuochang Chen, Wei Zhou, Ping Jiang, Huaping Tang, Rongyu Liu, Wei Zhang, Yiqiang Chen, Yijiang Huang, Xiaoju Liu, Luming Dai, Xianwei Ye, Chengping Hu, Jianying Xu

#### PA5489
**Deep learning facilitates the diagnosis of adult asthma**
Katsuuyki Tomita (Yonago, Japan), Hirokazu Touge, Hiromitsu Sakai, Hiroyuki Sano, Yuji Itohda

#### PA5490
**Quantitative assessment of hoysalivation and the risk of oropharyngeal problems in asthmatic patients**
Setsuko Koshiyama (Kyoto city, Japan), Kayoko Ito, Daiki Hira, Yuko Komase, Susumu Satoh

#### PA5491
**Perceived satisfaction when using an app designed to improve control in moderate-severe asthma patients.**
Sonia Herrero Martin (Pamplona (Navarra), Spain), Francisco Javier Campano Lancharro, Tamara Gutiérrez Urra, Ruth García Rey, Marisol Gómez Fernández, Alberto Cuesta Remón, Javier Huerto Pérez De Heredia, Pilar Cebollero Rivas

#### PA5492
**Severe asthma and high doses of corticosteroid adversely impact trabecular bone score more than bone mineral density**
Young-Min Ye (Suwon, Republic of Korea), Yong Jun Choi, Hyun-Young Lee, Duk Yong Yoon, An-Hye Kim, Hae-Sim Park

#### PA5493
**Asthma patients are Still Fighting for Breath**
Paraskevi Katsanounou (Athens, Greece), Mikaela Odemir, Otto Spranger, Michael E. Hyland, Matthias Gasser, Ioannis Kottakis, Xavier Jaumont, Ismail Kasujee
<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
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<tbody>
<tr>
<td>PA5494</td>
<td>Impact of bronchiectasis on severe asthma: data from the “Severe Asthma Network Italy” (SANI) registry</td>
<td>Enrico Marco Heffler (Torino (TO), Italy), Stefano Aliberti, Concetta Sirena, Alice D’Adda, Sebastian Ferri, Nunzio Crimi, Manuela Latorre, Gianenrico Senna, Pierluigi Paggiaro, Francesco Blasi, Giorgio Walter Canonica</td>
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<td>PA5496</td>
<td>Club Cell Protein-16 modifies airway inflammation in asthma and is associated with significant clinical asthma outcomes</td>
<td>Monica Kraft (Tucson, United States of America), Julie Ledford, Justyna Gozdz, Xingan Li, David Francisco, Akarsh Manne, Stefano Guerra, Fernando Martinez, Naftali Kaminski, Sally Wenzel, Deborah Meyers, Eugene Bleecker</td>
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<tr>
<td>PA5497</td>
<td>FASE-CPHG Study: Identification of asthma phenotypes in the French Severe Asthma Study using cluster analysis</td>
<td>Chantal Raherison-Semjen (Pessac, France), Anne Prudhomme, Cecilia Nocent-Eijnani, Jean-Philippe Oster, Cyril Maurer, Daniel Coetnoeur, Bertrand Lemaire, Toufik Didi, Eric Parrat, Didier Debieuvre, Laurent Portel</td>
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<tr>
<td>PA5498</td>
<td>Usefulness of a new JACS questionnaire in assessing the influence of inhalation guidance on asthma control level; comparison of 4 different devices of ICS/LABA</td>
<td>Hiroshi Tanaka (Sapporo, Japan), Soichiro Hozawa, Yuji Tobda</td>
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<tr>
<td>PA5499</td>
<td>The cost and benefits of exhaled nitric oxide (NO) measurement in asthma - The results from three years follow-up study</td>
<td>Sy Duong-Quy (Da Lat, Vietnam), Nhu Doan-Thi-Quynh, Dinh Tran-Thanh, Thong Hua-Huy, Craig Timothy, Anh-Tuan Dinh-Xuan</td>
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<tr>
<td>PA5500</td>
<td>Predictors of severe exacerbations in patients with moderate and severe asthma</td>
<td>Denitsa Dimitrova (Sofia, Bulgaria), Vania Youroukova, Tsvetelina Velikova, Kalina Tumangelova-Yuzeir</td>
</tr>
</tbody>
</table>
Session world village: Polish Respiratory Society in 2018 - aims and achievements

09:00
Szymon Skoczynski (Katowice, Poland)

Session world village: World village - Opening Ceremony

09:45

Session world village: The Lebanese Pulmonary Society: yesterday, today and tomorrow

10:30

Session world village: Dysphagia: a multidisciplinary matter

11:15

Session world village: Russian Respiratory Society and its role in clinical practice guidelines implementation

12:00
Zaurbek Aisanov (Moscow, Russian Federation)

Session world village: Updating The Joint Paper “The Clinical and Integrated Management of COPD in Italy”- The Project

Chairs: Stefano Gasparini (Ancona (AN), Italy)

12:45
Carlo Mereu (Genova (GE), Italy), Claudio Micheletto (S.Giovanni Lupatoto, Italy), Stefano Centanni (Milano (MI), Italy), Venerino Poletti (Forli, Italy), Stefano Nardini (Vittorio Veneto (TV), Italy), Speaker to be confirmed

Session world village: APSR, supporting clean air and healthy lungs in Asia-Pacific countries

13:30
Kwun Fong (Brisbane (QLD), Australia), Chong-Jen Yu (Taipei, Taiwan), Geethal Perera (Rajagiriya, Sri Lanka), Kwok Sang Wilson Yee (Hong Kong, Hong Kong), Kazi Bennoor (Dhaka, Bangladesh), Ser Hon Puah (Singapore, Singapore), Yasutomi Yamanaka (, Japan)

Session world village: The International Society for Aerosols in Medicine (ISAM): who we are and what we do

14:15
Andrew Martin (Edmonton (AB), Canada)

Session world village: EAACI - at the forefront of allergy and asthma care

15:00
Ioana Agache (Brasov (Brasov), Romania)

Session world village: ASSOBRAFIR in the ERS 2018 congress
<table>
<thead>
<tr>
<th>Time</th>
<th>Person(s)</th>
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<tbody>
<tr>
<td>15:45</td>
<td>Flavio Maciel Dias De Andrade (Recife (PE), Brazil)</td>
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<tr>
<td>16:30</td>
<td>Sead Zeynel (Skopje, FYROM (Macedonia)), Marija M. Zdraveska (Skopje, FYROM (Macedonia))</td>
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<td>Session</td>
<td>Time</td>
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<tr>
<td>231</td>
<td>09:00 - 09:30</td>
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<td>233</td>
<td>09:45 - 10:15</td>
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<tr>
<td>234</td>
<td>10:30 - 11:00</td>
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<tr>
<td>258</td>
<td>11:15 - 11:45</td>
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<td>261</td>
<td>12:15 - 12:45</td>
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<td>259</td>
<td>13:00 - 13:30</td>
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<td>328</td>
<td>13:30 - 14:00</td>
</tr>
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<td>329</td>
<td>14:15 - 14:45</td>
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<td>354</td>
<td>16:00 - 16:30</td>
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</tbody>
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Session world village: Working in partnership with charities to increase research funding and improve research outcomes

09:00  Erika Kennington (London, United Kingdom)

Session world village: Sophrology and respiration

09:45  Liliya Belenko Gentet (Drucourt, France)

Session world village: ALAT 2019 in Panama

10:30  Gustavo Zabert (Neuquén, Argentina)

Session world village: Egyptian society of Chest Diseases and Tuberculosis past, present, and future

11:15  Mohamed Tageldin (Cairo, Egypt)

Session world village: Trends of mortality of pulmonary fibrosis in Chile

12:00  Laura Hispania Mendoza Inzunza (Santiago, Chile), Hernán Cabello Araya (Santiago, Chile)

Session world village: Severely, Asthma! – how proper diagnosis, treatment and environment change lives

12:45  Giuseppe De Carlo (Bruxelles, Belgium)

Session world village: Presentation of the Tunisian Society of Pneumology (STMRA) and its activities

13:30  Sonia Maalej (Tunis, Tunisia)

Session world village: The Philippine Experience: Connecting the dots on TB and COPD

14:15  Lenora Fernandez (Manila, Philippines), Camilo Roa (Quezon City, Philippines), Carlo Trinidad (Manila, Philippines), Patrick Gerard Moral (Mandaluyong, Philippines)

Session world village: The Asthma Adviceline: How Patients Benefit from One to One Support

15:00  

Session world village: The Respiratory Society of Serbia (RSS)
<table>
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<tr>
<td>15:45</td>
<td>Jelena Jankovic (Beograd, Republic of Serbia), Jelena Cvejić (Beograd, Republic of Serbia)</td>
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<td><strong>World Village Theatre</strong> Session 510 16:30 - 17:00</td>
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<tr>
<td>16:30</td>
<td><strong>Session world village: Preliminary National Inquiry on COPD In Romania 2018</strong></td>
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<td><strong>The Romanian Pneumology Society Project – INSPIRO 2017 - Intervention against non-adherence to support patients with asthma and COPD from Romania</strong></td>
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<tr>
<td>16:45</td>
<td><strong>COPD prevalence in Romania</strong></td>
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<td>Florin Dumitru Mihaltan (București, Romania), Ruxandra Ulmeanu (București (Sector 5), Romania), Roxana Maria Nemes (București (Sector 5), Romania)</td>
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<td>Time</td>
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| 09:00 | 09:00 – 09:30 | World Village Theatre  
Session 540  
Session world village: Fostering tobacco cessation with Social Media and the boat race "La Route du Rhum" |
| 10:30 | 10:30 – 11:00 | World Village Theatre  
Session 541  
Session world village: Italian experience of pathology registries  
Venerino Poletti (Forlì, Italy), Adriano Vaghi (Bollate (MI), Italy) |
INDUSTRY SPONSORED SESSIONS
### Session 151 13:15 - 14:30

**Industry practical workshop: Advanced Monitoring in a Next Generation Ventilatory**  
*Organised by Philips*

**Chairs:** David White (Denver, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>New Technologies for Advanced Monitoring</td>
<td>Cesare Gregoretti (Palermo, Italy)</td>
<td>1539</td>
</tr>
<tr>
<td>13:35</td>
<td>Clinical Evidence</td>
<td>Cheryl Needham (Monroeville, United States of America)</td>
<td>1540</td>
</tr>
<tr>
<td>13:45</td>
<td>Hands on</td>
<td></td>
<td>1541</td>
</tr>
<tr>
<td>14:09</td>
<td></td>
<td></td>
<td>1542</td>
</tr>
</tbody>
</table>

### Terminal 7  Session 152 13:15 - 14:30

**Industry practical workshop: Latest progress in mouthpiece ventilation in life support**  
*Organised by ResMed*

**Chairs:** Hélène Prigent (Garches, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:20</td>
<td>Mouthpiece ventilation (MPV): which patients and what to expect?</td>
<td>Hélène Prigent (Garches, France)</td>
<td>1543</td>
</tr>
<tr>
<td>13:55</td>
<td>Hands on session: How to set up MPV with Astral</td>
<td>Hélène Prigent (Garches, France)</td>
<td>1544</td>
</tr>
<tr>
<td>13:55</td>
<td></td>
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<td>1545</td>
</tr>
<tr>
<td>14:09</td>
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<td></td>
<td>1546</td>
</tr>
</tbody>
</table>

### Session 153 13:15 - 14:30

**Industry practical workshop: Reading between the guidelines: the use of FeNO measurement in asthma management today**  
*Organised by CIRCASSIA*

**Chairs:** Liam Heaney (Belfast (Belfast), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Introduction by Chairman; Professor Liam Heaney (Belfast): FeNO as a biomarker in inflammatory asthma.</td>
<td>Liam Heaney (Belfast (Belfast), United Kingdom)</td>
<td>1547</td>
</tr>
<tr>
<td>13:25</td>
<td>Presentation 1: FeNO testing in the diagnosis and management of Th-2 asthma</td>
<td>Dominick Shaw (Nottingham (Nottinghamshire), United Kingdom)</td>
<td>1549</td>
</tr>
<tr>
<td>13:45</td>
<td>Presentation 2: FeNO as a biomarker in the selection and monitoring of patients for biologic therapy</td>
<td>Joaquin Sastre Dominguez (Tres Cantos (Madrid), Spain)</td>
<td>1548</td>
</tr>
<tr>
<td>14:05</td>
<td>Workshop: Demonstration of the NIOX VERO FeNO test device</td>
<td></td>
<td>1550</td>
</tr>
</tbody>
</table>

### Session 154 13:15 - 14:30

**Industry practical workshop: Connected health & big data in Sleep – innovative usage and future outlook**  
*Organised by ResMed*

**Chairs:** Carlos M. Nunez (San Diego, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Connected health and the impact of big data analytics</td>
<td>Carlos M. Nunez (San Diego, United States of America)</td>
<td>1552</td>
</tr>
<tr>
<td>13:35</td>
<td>An innovative approach to home titration - the benefits of telemonitoring</td>
<td>Maciej Krol (Lodz, Poland)</td>
<td>1553</td>
</tr>
<tr>
<td>13:55</td>
<td>How big data can improve our understanding of CSA during CPAP therapy</td>
<td>Holger Woehrle (Ulm, Germany)</td>
<td>1554</td>
</tr>
</tbody>
</table>
## Session 156 13:15 - 14:30

**Industry practical workshop: Clinical Usefulness of Diffusion Capacity - DLCO. How we profit from recent advancements.**

*Organised by ndd Medizintechnik AG*

**Chairs:** Vito Brusasco (Genova (GE), Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Clinical Usefulness of Diffusion Capacity - DLCO. How we profit from recent advancements. Helgo Magnussen (Großhansdorf, Germany)</td>
</tr>
<tr>
<td>13:33</td>
<td>1559</td>
</tr>
<tr>
<td>13:51</td>
<td>1560</td>
</tr>
<tr>
<td>14:09</td>
<td>1561</td>
</tr>
</tbody>
</table>

## Session 157 13:15 - 14:30

**Industry practical workshop: Interventional Pulmonologist, the toolkit you need**

*Organised by Boston Scientific International SA*

**Chairs:** Kaid Darwiche (Essen, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>1562</td>
</tr>
<tr>
<td>13:33</td>
<td>1563</td>
</tr>
<tr>
<td>13:51</td>
<td>1564</td>
</tr>
<tr>
<td>14:09</td>
<td>1565</td>
</tr>
</tbody>
</table>

## Session 158 13:15 - 14:30

**Industry practical workshop: Flexible and Rigid Bronchoscopy in Adults**

*Organised by Karl Storz SE & Co. KG*

**Chairs:** Hermann Tonn (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Presentation about Flexible and Rigid Bronchoscopy in Adults</td>
</tr>
<tr>
<td>13:30</td>
<td>Hands-on-Workshop: practical demonstration and training</td>
</tr>
<tr>
<td>14:09</td>
<td>1566</td>
</tr>
</tbody>
</table>

## Session 189 17:15 - 19:15

**Industry evening symposium: Update on Severe Eosinophilic Asthma: Decision Making in Clinical Practice**

*Organised by AstraZeneca PLC*

**Chairs:** Arnaud Bourdin (Montpellier Cedex 5, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:15</td>
<td>Welcome and Introductions Arnaud Bourdin (Montpellier Cedex 5, France)</td>
</tr>
<tr>
<td>17:20</td>
<td>Stratifying Asthma by Inflammatory Phenotypes Ratko Djukanovic (Southampton (Hampshire), United Kingdom)</td>
</tr>
<tr>
<td>17:40</td>
<td>New Therapeutic Options for Managing Severe Eosinophilic Asthma Mario Castro (St. Louis, United States of America)</td>
</tr>
<tr>
<td>18:15</td>
<td>Clinical Challenges and Management Strategies in Eosinophilic Asthma Arnaud Bourdin (Montpellier Cedex 5, France)</td>
</tr>
</tbody>
</table>
### 7.3Z1 Session 190 17:15 - 19:15
Industry evening symposium: Bridging the gap between research and clinical practice – where next in IPF?

*Organised by F. Hoffmann-La Roche Ltd*

**Chairs:** Vincent Cottin (Lyon, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:15</td>
<td>Welcome and opening</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>17:20</td>
<td>Making a leap: how can new technology improve the accuracy of IPF diagnosis?</td>
<td>Carlo Vancheri (Catania (CT), Italy)</td>
</tr>
<tr>
<td>17:40</td>
<td>Building a bridge: how can tertiary and secondary care work together to improve patient outcomes?</td>
<td>Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Helen Morris (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:10</td>
<td>Making the connection: what do French data from PASSPORT tell us?</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>18:30</td>
<td>Joining the dots: what do real-world data tell us about antifibrotics in IPF?</td>
<td>Michael Kreuter (Heidelberg, Germany)</td>
</tr>
<tr>
<td>18:50</td>
<td>Panel discussion and Q&amp;A</td>
<td>Vincent Cottin (Lyon, France), Michael Kreuter (Heidelberg, Germany), Carlo Vancheri (Catania (CT), Italy), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Helen Morris (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>19:10</td>
<td>Closing remarks</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
</tbody>
</table>

### 7.3Z2 Session 191 17:15 - 19:15
Industry evening symposium: Managing multiple outcomes in COPD: Blending data with patient priorities

*Organised by Boehringer Ingelheim International GmbH*

**Chairs:** Eric D. Bateman (Cape Town, South Africa)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:15</td>
<td>A complex landscape: Current considerations in personalized care</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>17:25</td>
<td>Tipping the balance: Combination treatment choice in COPD</td>
<td>MeiLan K. Han (Ann Arbor, United States of America)</td>
</tr>
<tr>
<td>17:50</td>
<td>Tailoring our treatment choice in practice: Patient cases</td>
<td>Michael Dreher (Aachen, Germany)</td>
</tr>
<tr>
<td>18:25</td>
<td>Rising to the challenge: What's next?</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>18:50</td>
<td>Q&amp;A</td>
<td></td>
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<tr>
<td>19:10</td>
<td>Closing comments</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
</tbody>
</table>

### 7.3K Session 192 17:15 - 19:15
Industry evening symposium: A new breath-triggered inhaler for asthma: delivering innovation through design

*Organised by Mundipharma International Limited*

**Chairs:** Alberto Papi (Ferrara, Italy), Omar S. Usmani (London, United Kingdom)
17:15 Welcome
Alberto Papi (Ferrara, Italy), Omar S. Usmani (London, United Kingdom)

17:20 From efficacy to effectiveness: where are we with asthma control?
Alberto Papi (Ferrara, Italy)

17:40 Inhaler errors and asthma outcomes: what can we learn from clinical practice?
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)

18:00 An innovative new breath-triggered inhaler for the treatment of asthma
Omar S. Usmani (London, United Kingdom)

18:35 Designed with patients in mind: patient support and training tools for improved asthma management
Jane Scullion (Berkshire, United Kingdom)

18:55 Panel discussion

19:10 Closing remarks
Alberto Papi (Ferrara, Italy), Omar S. Usmani (London, United Kingdom)

Session 193
Industry evening symposium: Effectiveness in every day clinical practice: New data from the Salford Lung Study in asthma
Organised by GSK
Chairs: Frédéric De Blay (Strasbourg, France)

17:15 Chair’s welcome
Frédéric De Blay (Strasbourg, France)

17:20 What does the evidence around RCTs in asthma tell us?
Fabiano Di Marco (Trezzano Sul Naviglio (MI), Italy)

17:50 The Salford Lung Study: Defining effectiveness in everyday clinical practice
David Leather (London, United Kingdom)

18:20 The Salford Lung Study in context: A paradigm shift in assessing asthma therapies
Mike Thomas (Southampton (Hampshire), United Kingdom)

18:55 Q&A and closing remarks
Frédéric De Blay (Strasbourg, France)

Session 194
Industry evening symposium: COPD Patients and Doctors: Travelling in the same direction?
Organised by Menarini group
Chairs: Alvar Agusti Garcia-Navarro (Barcelona, Spain), Bartolome R. Celli Croquer (Boston, United States of America)

17:15 Chairmen’s introduction
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Bartolome R. Celli Croquer (Boston, United States of America)

17:25 In this era of “Omics”: the missing link - Humanomics
Bartolome R. Celli Croquer (Boston, United States of America)

17:45 Patients and Doctors: mirroring each other
Dave Singh (Manchester, United Kingdom)

18:05 Developing COPD: how do patients get there?
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

18:25 Treating patients today: deciphering the alphabet soup
Klaus F. Rabe (Grosshansdorf, Germany)

18:45 Panel Discussion
### Session 195 17:15 - 19:15

**Industry evening symposium: Getting to the 'heart' of COPD management: time for personalization?**  
*Organised by Novartis Pharma AG*

**Chairs:** David Price (Singapore, Singapore)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:15</td>
<td>Welcome and introduction</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>17:25</td>
<td>Cardiovascular co-morbidities in COPD: do they matter?</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
</tr>
<tr>
<td>17:40</td>
<td>Acute exacerbations and the multi-morbid patient: a failure of the heart or the lung?</td>
<td>Martin Möckel (Berlin, Germany)</td>
</tr>
<tr>
<td>17:55</td>
<td>Chair-led expert discussion and audience Q&amp;A</td>
<td></td>
</tr>
<tr>
<td>18:05</td>
<td>ICS use in COPD: are we listening to the evidence?</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>18:15</td>
<td>Modern management of COPD: time to take it personally?</td>
<td>Jadwiga Wedzicha (London, United Kingdom)</td>
</tr>
<tr>
<td>18:45</td>
<td>Chair-led expert discussion and audience Q&amp;A</td>
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</tr>
<tr>
<td>19:05</td>
<td>Summary &amp; Close</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
</tbody>
</table>

### Session 196 17:15 - 19:15

**Industry evening symposium: Achieve more – Taking an evidence-based approach to PAH management**  
*Organised by Actelion Pharmaceuticals Ltd*

**Chairs:** Luke Howard (London, United Kingdom), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:15</td>
<td>Introduction</td>
<td>Luke Howard (London, United Kingdom)</td>
</tr>
<tr>
<td>17:20</td>
<td>Diagnosis and treatment in PAH – Choosing the right approach</td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
</tr>
<tr>
<td>17:40</td>
<td>Differential diagnosis in practice – A patient case</td>
<td>Hans Klose (Hamburg, Germany)</td>
</tr>
<tr>
<td>18:10</td>
<td>Choosing the right treatment strategy today – A case study</td>
<td>Marion Delcroix (Leuven, Belgium)</td>
</tr>
<tr>
<td>18:40</td>
<td>Managing PAH – Taking an evidence-based approach</td>
<td>Nick Kim (La Jolla, United States of America)</td>
</tr>
<tr>
<td>19:00</td>
<td>Panel discussion</td>
<td></td>
</tr>
</tbody>
</table>

### Session 197 17:15 - 19:15

**Industry evening symposium: Discovering asthma paradigms in an evolving landscape: Experts Perspectives**  
*Organised by Sanofi Genzyme and Regeneron*

**Chairs:** Marc Humbert (Paris, France)
### 7.3J  Session 198  17:30 - 19:00

**Industry evening mini symposium: Advances in Genetic COPD: Implementation of AATD Research Findings in Clinical Practice**

*Organised by GRIFOLS*

**Chairs:** Noel Gerard McElvaney (Dublin, Ireland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Welcome and Introduction</td>
<td>Noel Gerard McElvaney</td>
<td>Dublin, Ireland</td>
<td>1830</td>
</tr>
<tr>
<td>17:35</td>
<td>From Evidence to Practice - New Recommendations on the Management of Pulmonary Disease in AATD</td>
<td>Robert Andrew Stockley</td>
<td>Birmingham (West Midlands), United Kingdom</td>
<td>1831</td>
</tr>
<tr>
<td>18:30</td>
<td>Discussion</td>
<td>All All</td>
<td></td>
<td>1833</td>
</tr>
<tr>
<td>18:40</td>
<td>The 15th Annual ALTA Research Grant Award - Introduction and Program Overview</td>
<td>Noel Gerard McElvaney</td>
<td>Dublin, Ireland</td>
<td>1834</td>
</tr>
<tr>
<td>18:45</td>
<td>2017 ALTA Research Project Presentations</td>
<td>Luis Sendra, Nerea Matamala</td>
<td>Valencia, Madrid</td>
<td>1835</td>
</tr>
<tr>
<td>18:50</td>
<td>2018 ALTA Awards Ceremony</td>
<td>TBD TBD</td>
<td></td>
<td>1836</td>
</tr>
<tr>
<td>18:55</td>
<td>Summary and Close</td>
<td>Noel Gerard McElvaney</td>
<td>Dublin, Ireland</td>
<td>1837</td>
</tr>
</tbody>
</table>

### 7.3W  Session 199  17:30 - 19:00

**Industry evening mini symposium: Updates and current challenges in difficult-to-treat pneumonia**

*Organised by Pfizer*

**Chairs:** Jean Chastre (Paris, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Setting the scene: difficult-to-treat pneumonia</td>
<td>Jean Chastre</td>
<td>Paris, France</td>
<td>1838</td>
</tr>
<tr>
<td>17:45</td>
<td>Treatment considerations for comorbid patients with CAP: the complex made simple</td>
<td>Antoni Torres</td>
<td>Barcelona, Spain</td>
<td>1839</td>
</tr>
<tr>
<td>18:10</td>
<td>Tackling resistant Gram-negative HAP/VAP: the role of a novel β-lactam/β-lactamase inhibitor</td>
<td>Matteo Bassetti</td>
<td>Udine (UD), Italy</td>
<td>1840</td>
</tr>
<tr>
<td>18:35</td>
<td>Panel Q&amp;A and discussion</td>
<td>Jean Chastre, Antoni Torres, Matteo Bassetti</td>
<td>Paris, Barcelona, Udine, Italy</td>
<td>1841</td>
</tr>
</tbody>
</table>
### Session 200: 17:30 - 19:00

**Industry evening mini symposium: Discover New Dimensions in Interventional Pulmonology**  
*Organised by Olympus Europa SE & Co. KG*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>Dive deeper into the lung — how peripheral can I go?</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
</tr>
<tr>
<td>17:50</td>
<td>Valve therapy — SeleCT the right emphysema patient</td>
<td>Ralf Eberhardt (Heidelberg, Germany)</td>
</tr>
<tr>
<td>18:10</td>
<td>Get energized with Argon Plasma Coagulation</td>
<td>Franz Stanzel (Hemer, Germany)</td>
</tr>
<tr>
<td>18:30</td>
<td>Celebrate 15 years of EBUS-TBNA</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
</tr>
</tbody>
</table>
### 7.2B  Session 203  07:00 - 08:15

**Industry early morning symposium: Type 2 Inflammation and the Evolving Profile of Uncontrolled Persistent Asthma**  
*Organised by Sanofi Genzyme and Regeneron Pharmaceuticals*  
**Chairs:** Giorgio Walter Canonica (Milano (MI), Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00</td>
<td>Welcome and Introductions</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
<td>1855</td>
</tr>
<tr>
<td>07:10</td>
<td>Defining Severe Asthma</td>
<td>Zuzana Diamant (Lund, Sweden)</td>
<td>1856</td>
</tr>
<tr>
<td>07:25</td>
<td>Type 2 Asthma: What Is it and What Mediators Drive It?</td>
<td>Sven-Erik Dahlén (Stockholm, Sweden)</td>
<td>1857</td>
</tr>
<tr>
<td>07:45</td>
<td>Interactive Session: Identifying Type 2 Asthma in Clinical Practice</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy)</td>
<td>1858</td>
</tr>
<tr>
<td>08:05</td>
<td>Closing Remarks and Panel Q&amp;A</td>
<td>Giorgio Walter Canonica (Milano (MI), Italy), Zuzana Diamant (Lund, Sweden), Sven-Erik Dahlén (Stockholm, Sweden)</td>
<td>1859</td>
</tr>
</tbody>
</table>

### 7.2C  Session 204  07:00 - 08:15

**Industry early morning symposium: 6 Month Results of Safety and Feasibility Study in Chronic Bronchitis Patients**  
*Organised by CSA Medical*  
**Chairs:** Gerard J. Criner (Philadelphia, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00</td>
<td>Chronic Bronchitis Prevalence and Patient Outlook</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>1860</td>
</tr>
<tr>
<td>07:15</td>
<td>Metered Cryospray Concept to Human Use</td>
<td>Dirk-Jan Slebos (Groningen, Netherlands)</td>
<td>1861</td>
</tr>
<tr>
<td>07:30</td>
<td>RejuvenAir System Metered Cryospray 6 Month Safety and Feasibility Results</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
<td>1862</td>
</tr>
<tr>
<td>07:45</td>
<td>RejuvenAir Future Design Advancements</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>1863</td>
</tr>
<tr>
<td>08:00</td>
<td>The Future of Metered Cryospray for Chronic Bronchitis Patients</td>
<td>Gerard J. Criner (Philadelphia, United States of America)</td>
<td>1864</td>
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</table>

### 7.3R  Session 207  07:00 - 08:15

**Industry early morning symposium: Patients as partners in drug development: From rhetoric into reality in a connected world**  
*Breakfast will be provided*  
*Organised by GSK*  
**Chairs:** Monica Fletcher (Cuckfield, United Kingdom)

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>07:00</td>
<td>Welcome and introduction</td>
<td>Monica Fletcher (Cuckfield, United Kingdom)</td>
<td>1875</td>
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<tr>
<td>07:05</td>
<td>What matters to me: A patient perspective</td>
<td>Kjeld Hansen (Oslo, Norway)</td>
<td>1876</td>
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<tr>
<td>07:15</td>
<td>Connecting with patients: The digital opportunity</td>
<td>Felix Jackson (London, United Kingdom)</td>
<td>1877</td>
</tr>
<tr>
<td>07:25</td>
<td>Technology to understand patients' needs in clinical studies</td>
<td>Ruth Tal-Singer (King of Prussia, United States of America)</td>
<td>1878</td>
</tr>
</tbody>
</table>
### Session 320: 13:15 - 14:30
**Industry practical workshop: Expiratory Flow Limitation - What is it and Why it Matters**

Organised by Philips

**Chairs:** David White (Denver, United States of America)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>What is Expiratory Flow Limitation and why it is Important to Evaluate in COPD.</td>
<td>Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom)</td>
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<td>13:45</td>
<td>Hands-On</td>
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<td>13:51</td>
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<td>14:09</td>
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### Session 321: 13:15 - 14:30
**Industry practical workshop: Interactive session on home NIV for COPD: how can technology support better care and care management.**

Organised by ResMed

**Chairs:** Jesus Gonzalez (Montlignon, France), Mark Phillips (Sydney (NSW), Australia)

<table>
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<tr>
<th>Time</th>
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<th>Speaker/Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>How to reconcile with high intensity NIV in home COPD patients</td>
<td>Jesus Gonzalez</td>
</tr>
<tr>
<td>13:35</td>
<td>Telemonitoring solutions for home NIV: learning from real life experiences</td>
<td>Christopher Carlin</td>
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<td>13:55</td>
<td>Hands-on session: NIV setup with Lumis and AirView telemonitoring</td>
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### Session 322: 13:15 - 14:30
**Industry practical workshop: MRD (Mandibular Repositioning Device) : a proven alternative to CPAP for OSA patients**

Organised by ResMed

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Efficacy of MRDs in the treatment of OSA – literature review</td>
<td>Peter A. Cistulli (St Leonards (NSW), Australia)</td>
</tr>
<tr>
<td>13:35</td>
<td>Narval CC : an MRD designed for compliance</td>
<td>Jean-Claude Meurice (Poitiers, France)</td>
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<tr>
<td>13:55</td>
<td>Hands-on session with the Narval appliance</td>
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### Session 323: 13:15 - 14:30
**Industry practical workshop: Transcutaneous PCO2 monitoring in clinical practice**

Organised by SenTec AG

**Chairs:** Prashant Nemichand Chhajed (Mumbai, India)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Location</th>
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<tbody>
<tr>
<td>13:15</td>
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</tbody>
</table>
13:15  Transcutaneous carbon dioxide monitoring during sleep  
Prashant Nemichand Chhajed (Mumbai, India)  

13:23  Transcutaneous carbon dioxide monitoring and NIV  
Wolfram Windisch (Cologne, Germany)  

13:31  Transcutaneous carbon dioxide monitoring for children and in home mechanical ventilation  
Brigitte Fauroux (Paris, France)  

13:39  Discussion and hands-on demonstration  
Wolfram Windisch (Cologne, Germany)  

7.3W  Session 325  13:15 - 14:30  
Industry practical workshop: Experience New Dimensions in Interventional Pulmonology  
Organised by Olympus Europa SE & Co. KG  
Chairs: Arschang Valipour (Wien, Austria), Ales Rozman (Golnik, Slovenia), Maren Schuhmann (Heidelberg, Germany), Franz Stanzel (Hemer, Germany)  

13:15  Introduction  
Arschang Valipour (Wien, Austria)  

13:30  Practice EBUS-TBNA with the Experts  
Maren Schuhmann (Heidelberg, Germany)  

13:30  Practice Peripheral Bronchoscopy with the Experts  
Ales Rozman (Golnik, Slovenia)  

13:30  Practice Valve Therapy with the Experts  
Arschang Valipour (Wien, Austria)  

13:30  Practice Argon Plasma Coagulation with the Experts  
Franz Stanzel (Hemer, Germany)  

7.3X  Session 326  13:15 - 14:30  
Industry practical workshop: Optimal Patient Selection for Successful Treatment of Severe Lung Emphysema  
Organised by Pulmonx  
Chairs: Daniela Gompelmann (Heidelberg, Germany)  

Welcome & Introduction  
Daniela Gompelmann (Heidelberg, Germany)  

Update on current best practices  
Daniel Franzen (Zürich, Switzerland)  

How to identify the right patient?  
Karin Klooster (Groningen, Netherlands)  

The value of QCT-Analysis with StratX  
Michela Bezzi (Firenze (FI), Italy)  

Chartis & Zephyr Endobronchial Valves  
Daniel Franzen (Zürich, Switzerland), Daniela Gompelmann (Heidelberg, Germany)  

7.3Y  Session 327  13:15 - 14:30  
Industry practical workshop: Endobronchial and Pleural Ultrasound Workshop  
Organised by FUJIFILM  
Chairs: Joris van der Horst (Glasgow (Glasgow), United Kingdom), Christophe Dooms (Leuven, Belgium), Antoni Rosell Gratacos (Hospitalet de Llobregat (Barcelona), Spain), Rüdiger Eichholz (Tübingen, Germany)
7.3N  Session 355  17:15 - 19:15

Industry evening symposium: Current COPD treatment paradigm and evidence: What are the unanswered questions and the clinical implications?

Organised by GSK

Chairs: Bruno P.P. Housset (Creteil, France), Paul Jones (London, United Kingdom)

17:15  Chairs’ welcome
Bruno P.P. Housset (Creteil, France)  3431

17:20  Current COPD treatment paradigm: What does GOLD recommend and why?
Henrik Watz (Großhansdorf, Germany)  3432

17:35  Evidence from recent studies: The IMPACT study
David A Lipson (Wynnnewood, United States of America)  3433

17:50  Approaches to bronchodilator treatment for the breathless patient
Paul Jones (London, United Kingdom)  3434

18:10  What to do with GOLD D patients?
Alice Turner (Birmingham (West Midlands), United Kingdom)  3435

18:30  This patient had an exacerbation last year: What would you do?
Neil C. Barnes (London, United Kingdom)  3436

18:50  Panel discussion and close  3437

7.3C  Session 356  17:15 - 19:15

Industry evening symposium: Aiming for Optimal Asthma Care: A Metamorphosis in Asthma Care?

Organised by AstraZeneca PLC

Chairs: Paul O’Byrne (Hamilton (ON), Canada)

17:15  Welcome and Introductions
Paul O’Byrne (Hamilton (ON), Canada)  3438

17:25  The Paradoxes of Asthma Management
Christine Jenkins (Mc Mahons Point (NSW), Australia)  3439

17:50  Escaping the Paradox - Evidence for As-needed Anti-inflammatory Reliever Therapy
Helen Reddel (Sydney (NSW), Australia)  3440

18:20  Clinical Practice Implications
Eric D. Bateman (Cape Town, South Africa)  3441

18:45  Panel Discussion & Audience Q&A  3442

19:10  Meeting Close
Paul O’Byrne (Hamilton (ON), Canada)  3443

7.3Z2  Session 357  17:15 - 19:15

Industry evening symposium: Fibrosing Interstitial Lung Diseases: Translating Recent Learnings Into Future Directions

Organised by Boehringer Ingelheim International GmbH

Chairs: Vincent Cottin (Lyon, France), Fernando J. Martinez (New York, United States of America)

17:15  Welcome and introduction
Vincent Cottin (Lyon, France)  3444
### Industry evening symposium: Severe Asthma in FOCUS: How can we Reduce OCS Use

**Organised by AstraZeneca PLC**

**Chairs:** Andrew Menzies-Gow (London, United Kingdom)

- **17:15** Welcome and Objectives
  - Andrew Menzies-Gow (London, United Kingdom)

- **17:25** Challenges of Severe Asthma Management: Current OCS Use in Perspective
  - Eugene R. Bleecker (Winston-Salem, United States of America)

- **17:45** Insights into the Cumulative Burden of OCS Exposure
  - Janwillem W. H. Kocks (Groningen, Netherlands)

- **18:05** How can we Reduce OCS use? Treatment Alternatives Under the Lens
  - Elisabeth H.D. Bel (Amsterdam, Netherlands)

- **18:25** The ‘Big Picture’: Enabling Change to Improve Quality of Care in Severe Asthma
  - Andrew Menzies-Gow (London, United Kingdom)

- **18:40** Audience Q&A and Panel Discussion

- **19:10** Close
  - Andrew Menzies-Gow (London, United Kingdom)

### Industry evening symposium: Early management of asthma to prevent adverse outcomes – different management strategies according to age group

**Organised by Boehringer Ingelheim International GmbH**

**Chairs:** Nikolaos Papadopoulos (Manchester, United Kingdom)

- **17:15** Welcome and introduction
  - Nikolaos Papadopoulos (Manchester, United Kingdom)

- **17:25** Asthma in children 5 years: current and future perspectives
  - Stanley J. Szefler (Aurora, United States of America)

- **17:55** Asthma management in children 6–11 years: what’s new, what’s next
  - Christian Vogelberg (Dresden, Germany)

- **18:25** The evolving management of asthma in adolescents and adults
  - Mark Fitzgerald (Vancouver (BC), Canada)

- **18:55** Q&A
Session 360 17:15 - 19:15

Industry evening symposium: The asthma patient journey: what more can be done?

Organised by Novartis Pharma AG

Chairs: Marc Humbert (Paris, France)

17:15 Welcome, introduction and a guide through the asthma patient journey
Marc Humbert (Paris, France)

17:20 Beginning the asthma journey: barriers and opportunities to improve control
David Price (Singapore, Singapore)

17:40 The era of precision medicine from the pulmonologist’s perspective: the right treatment for the right patient
Liam Heaney (Belfast, Belfast), United Kingdom

18:00 New real-life data and perspectives in severe asthma patients
Marc Humbert (Paris, France)

18:20 Beyond the breath: the psychological factors of asthma
Kim Lavoie (Montréal (QC), Canada)

18:50 How can we do better for our patients: panel discussion and audience Q&A

19:10 Chair’s concluding remarks
Marc Humbert (Paris, France)

Session 361 17:30 - 19:00

Industry evening mini symposium: Targeted Lung Denervation (TLD)- A One-Time Treatment for COPD and Severe Asthma

Organised by Nuvaira

Chairs: Alvar Agusti Garcia-Navarro (Barcelona, Spain), Felix J.F. Herth (Heidelberg, Germany)

17:30 Welcome and Introduction
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Felix J.F. Herth (Heidelberg, Germany)

17:35 Neural Control of Airway Smooth Muscle and Mucus Production
Brendan Canning (Baltimore, United States of America)

17:45 Mechanism of Action and the NuvairaTM Lung Denervation System
Pallav L. Shah (London, United Kingdom)

18:00 TLD in COPD: Data from the AIRFLOW-1 and Sham-Controlled AIRFLOW-2 Trials
Dirk-Jan Slebos (Groningen, Netherlands), Arschang Valipour (Wien, Austria)

18:30 TLD in COPD: The AIRFLOW-3 Pivotal Trial
Frank Sciurba (Pittsburgh, United States of America)

18:40 TLD in Severe Asthma
Pallav L. Shah (London, United Kingdom)

18:45 Panel Discussion and Q&A

Session 362 17:30 - 19:00

Industry evening mini symposium: Back to basics in asthma and COPD: optimizing the patient journey

Organised by Orion and Menarini

Chairs: Mika Makela (Hus (Helsinki), Finland), Giorgio Walter Canonica (Milano (MI), Italy)

17:30 Introduction
Giorgio Walter Canonica (Milano (MI), Italy)
### Session 363
**7.2C**
**17:30 - 19:00**

**Industry evening mini symposium: The Rhinitis-Asthma link in childhood: pathogenesis, old and new therapeutic solutions.**

*Organised by OMRON Healthcare Europe B.V.*

**Chairs:** Renato Cutrera (Roma (RM), Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
<th>Page</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Introduction - Welcome</strong></td>
<td>Renato Cutrera (Roma (RM), Italy)</td>
<td>Roma (RM), Italy</td>
<td>3487</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>United Airways Disease: pathogenesis, natural history, diagnostic problems</strong></td>
<td>Bülent Taner Karadag (Istanbul, Turkey)</td>
<td>Istanbul, Turkey</td>
<td>3488</td>
</tr>
<tr>
<td>18:00</td>
<td><strong>Standard and innovative devices in the treatment of respiratory diseases in childhood</strong></td>
<td>Renato Cutrera (Roma (RM), Italy)</td>
<td>Roma (RM), Italy</td>
<td>3489</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>United Airways Treatment: clinical trials with novel devices</strong></td>
<td>Paolo Maria Matricardi (Berlin, Germany)</td>
<td>Berlin, Germany</td>
<td>3490</td>
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<tr>
<td>18:50</td>
<td><strong>Discussion</strong></td>
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### Session 364
**7.2D**
**17:30 - 19:00**

**Industry evening mini symposium: Bronchiectasis: from Guidelines to Clinical Practice**

*Organised by GRIFOLS*

**Chairs:** Francesco Blasi (Milan, Italy)

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<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>17:30</td>
<td><strong>Welcome and Introduction</strong></td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>Milan, Italy</td>
<td>3492</td>
</tr>
<tr>
<td>17:40</td>
<td><strong>Management of Bronchiectasis Patients: How to Move from Guidelines to the Clinical Practice</strong></td>
<td>Eva Polverino (Barcelona, Spain)</td>
<td>Barcelona, Spain</td>
<td>3493</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Microbiological Changes in Bronchiectasis Progression</strong></td>
<td>Christian Taube (Essen, Germany)</td>
<td>Essen, Germany</td>
<td>3494</td>
</tr>
<tr>
<td>18:30</td>
<td><strong>Could my patient have Bronchiectasis? A look at Patient Cases</strong></td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
<td>Dundee (Angus)</td>
<td>3495</td>
</tr>
<tr>
<td>18:50</td>
<td><strong>Debate and Concluding Remarks</strong></td>
<td>Francesco Blasi (Milan, Italy)</td>
<td>Milan, Italy</td>
<td>3496</td>
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### Session 365
**7.3J**
**17:30 - 19:00**

**Industry evening mini symposium: How important is early action in Pulmonary Arterial Hypertension?**

*Organised by GSK*

**Chairs:** Ari Chaouat (Vandoeuvre-Les-Nancy, France)
17:30  **Introduction – How important is early action in Pulmonary Arterial Hypertension?**
Ari Chaouat (Vandoeuvre-Les-Nancy, France)

17:35  **Improving diagnosis in Pulmonary Arterial Hypertension**
David Kiely (Sheffield (South Yorkshire), United Kingdom)

17:55  **Importance of the right treatment from the start**
Ari Chaouat (Vandoeuvre-Les-Nancy, France)

18:15  **Putting it into practice: Interactive Pulmonary Arterial Hypertension patient case study**
Luke Howard (London, United Kingdom)

18:40  **Q&A – How important is early action in Pulmonary Arterial Hypertension?**
Ari Chaouat (Vandoeuvre-Les-Nancy, France)

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**Session 366  17:30 - 19:00**

Industry evening mini symposium: Focusing on the patient – future prospects in Alpha 1 management

*Organised by CSL Behring*

**Chairs:** Michael Campos (Miami, United States of America), Joanna Chorostowska-Wynimko (Warsaw, Poland)

17:30  **Welcome and introduction**
Michael Campos (Miami, United States of America)

17:35  **Rare lung diseases in the spotlight: New European initiatives**
Joanna Chorostowska-Wynimko (Warsaw, Poland)

17:50  **Do we need another AATD registry?**
Miriam Barrecheeguren Fernandez (Barcelona, Spain)

18:00  **No lab – No diagnosis: How to align testing for AATD across Europe**
Ilaria Ferrarotti (Pavia (PV), Italy)

18:10  **Alternative dosing regimens for patients with AATD: Safety of bi-weekly AAT therapy**
Timm Greulich (Marburg, Germany)

18:25  **Self-administration of AAT therapy in the US: Results of an AlphaNet survey**
Robert A. Sandhaus (Bow Mar, United States of America)

18:40  **Discussion/Questions**

18:55  **Closing remarks**
Joanna Chorostowska-Wynimko (Warsaw, Poland)
**Industry practical workshop: Humidified nasal high flow for respiratory support in the chronic setting**

Organised by Fisher & Paykel Healthcare SAS

Chairs: Gerard J. Criner (Philadelphia, United States of America), Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)

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<th>Time</th>
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<th>Author</th>
<th>Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Physiological effects of humidified nasal high flow</td>
<td>Stefano Nava (Bologna (BO), Italy)</td>
<td>4846</td>
</tr>
<tr>
<td>13:28</td>
<td>Nasal high-flow in hypercapnic patients</td>
<td>Jens Bräunlich (Leipzig, Germany)</td>
<td>4847</td>
</tr>
<tr>
<td>13:41</td>
<td>Long-term effects of oxygen-enriched humidified Nasal High Flow therapy in COPD patients</td>
<td>Ulla Weinreich (Ålborg, Denmark)</td>
<td>4848</td>
</tr>
<tr>
<td>13:54</td>
<td>Adherence and implementation of humidified Nasal High Flow for long term use in COPD Patients</td>
<td>Line Storgaard (Aabybro, Denmark)</td>
<td>4849</td>
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<tr>
<td>14:07</td>
<td>Hands-on</td>
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**Terminal 7**

**Industry practical workshop: Portable PAP treatment 2.0: innovative technologies and connected care**

Organised by ResMed

Chairs: Ramón Farré Ventura (Barcelona, Spain)

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<tbody>
<tr>
<td>13:15</td>
<td>Travel PAP performance: matching the standards of conventional primary PAP devices</td>
<td>Ramón Farré Ventura (Barcelona, Spain)</td>
<td>4851</td>
</tr>
<tr>
<td>13:35</td>
<td>Engagement and coaching – new technologies to help patient</td>
<td>Gregory Boyle (Martinsried, Germany)</td>
<td>4852</td>
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<tr>
<td>13:50</td>
<td>Hands-on session with AirMini</td>
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**Session 478**

**Industry practical workshop: Advances in respiratory care: Endobronchial ablation and Lung Volume Reduction**

Organised by Medtronic

Chairs: Pallav L. Shah (London, United Kingdom)

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<tr>
<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Endobronchial Ablation Early Experience: Technology and case implications</td>
<td>Kelvin Lau (London, United Kingdom)</td>
<td>4855</td>
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<tr>
<td>13:35</td>
<td>Monitoring during and after LVR: the essential requirements</td>
<td>Wolfgang Heinrich (Mainz, Germany)</td>
<td>4856</td>
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<tr>
<td>13:55</td>
<td>Patient selection for LVRS beyond NETT</td>
<td>Walter Weder (Zürich, Switzerland)</td>
<td>4857</td>
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<tr>
<td>14:15</td>
<td>Q &amp; A</td>
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**Session 479**

**Industry practical workshop: Innovation in Airway Clearance: Discover the direct action of the Simeox technology on mucus rheology and the clinical impact on bronchial drainage**

Organised by Physio Assist

Chairs: Jesus Gonzalez Bermejo (Montlignon, France),

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:15</td>
<td>The Simeox technology for an efficient and comfortable bronchial drainage</td>
<td>Florence Danet (Rueil-Malmaison, France)</td>
<td>4859</td>
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### 7.3W Session 481 13:15 - 14:30

**Industry practical workshop: Endobronchial and Pleural Ultrasound Workshop**

Organised by FUJIFILM

**Chairs:** Joris van der Horst (Glasgow, United Kingdom), Christophe Dooms (Leuven, Belgium), Antoni Rosell Gratacos (Hospitalet de Llobregat, Barcelona, Spain), Rüdiger Eichholz (Tübingen, Germany)

- **13:15** EBUS-TBNA
- **13:15** EBUS-MINI PROBE with Plastic Model
- **13:15** EBUS-TBNA with Simbionix simulator
- **13:30** Pleural Ultrasound by SonoSite

### 7.3X Session 482 13:15 - 14:30

**Industry practical workshop: Transbronchial cryobiopsy**

Organised by Erbe Elektromedizin GmbH

**Chairs:** Felix J.F. Herth (Heidelberg, Germany), Jürgen Hetzel (Tuebingen, Germany), Lonny Yarmus (Baltimore, United States of America)

- **13:15** Welcome and introduction
- **13:15** Clinical value of transbronchial cryobiopsy
- **13:15** How to perform transbronchial cryobiopsy
  - Lonny Yarmus (Baltimore, United States of America), Jürgen Hetzel (Tuebingen, Germany), Speaker to be confirmed
- **14:00** Hands-on transbronchial cryobiopsy
  - Jürgen Hetzel (Tuebingen, Germany), Lonny Yarmus (Baltimore, United States of America), Speaker to be confirmed

### 7.3Y Session 483 13:15 - 14:30

**Industry practical workshop: Medical Thoracoscopy**

Organised by KARL STORZ SE & Co. KG

**Chairs:** Ralf Heine (Halle, Germany)

- **13:15** Presentation about Medical Thoracoscopy
- **13:30** Hands-on workshop: practical demonstration and training

### 7.3C Session 512 17:15 - 19:15

**Industry evening symposium: Leaving a mark in asthma and COPD - Innovation Footprints in Respiratory Care**

Organised by Chiesi Farmaceutici S.p.A.

**Chairs:** Leonardo Michele Fabbri (Modena, Italy), Florence Schleich (Liège, Belgium)

- **17:15** Envisioning the upcoming journey – Emergent trends shaping the future of chronic lung diseases
  - Bartolome R. Celli Croquer (Boston, United States of America)
- **17:45** Outlining a new dawn for COPD patients – From the roots of inflammation and obstruction in COPD to the latest therapeutic breakthroughs
  - Alberto Papi (Ferrara, Italy)
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Location</th>
<th>Sponsor/Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15</td>
<td>Elevating the outcomes for asthma patients – A deep dive in the world of asthma and small airways to highlight procedures of disease control</td>
<td>Paul O’Byrne (Hamilton (ON), Canada)</td>
<td>5087</td>
</tr>
<tr>
<td>18:45</td>
<td>Tailoring solutions, shaping health – How Chiesi’s pipeline answers to the evolving needs of patients</td>
<td>Mark Parry-Billings (Parma (PR), Italy)</td>
<td>5088</td>
</tr>
<tr>
<td>17:15</td>
<td><strong>Session 513</strong> 17:15 - 19:15 Industry evening symposium: Inflammation and Treatable Traits in COPD: How to Reconcile Strategy and Practice</td>
<td>Organised by AstraZeneca PLC</td>
<td></td>
</tr>
<tr>
<td>17:15</td>
<td>Welcome and Introductions</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>5089</td>
</tr>
<tr>
<td>17:25</td>
<td>Inflammation in COPD</td>
<td>Fernando J. Martinez (New York, United States of America)</td>
<td>5090</td>
</tr>
<tr>
<td>17:50</td>
<td>Treatable Traits in COPD</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)</td>
<td>5091</td>
</tr>
<tr>
<td>18:15</td>
<td>Recent Clinical Advances in COPD</td>
<td>Gary T. Ferguson (Farmington Hills, United States of America)</td>
<td>5092</td>
</tr>
<tr>
<td>18:40</td>
<td>Panel Discussion and Audience Q&amp;A</td>
<td></td>
<td>5093</td>
</tr>
<tr>
<td>19:10</td>
<td>Meeting Close</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
<td>5094</td>
</tr>
<tr>
<td>17:15</td>
<td><strong>Session 514</strong> 17:15 - 19:15 Industry evening symposium: Anti-IL-5 treatment options for the severe eosinophilic asthma patient: Are they all the same?</td>
<td>Organised by GSK</td>
<td></td>
</tr>
<tr>
<td>17:15</td>
<td>Who is a candidate for anti-IL-5 therapy?</td>
<td>Marc Humbert (Paris, France)</td>
<td>5095</td>
</tr>
<tr>
<td>17:30</td>
<td>Eosinophil functions and the role of IL-5</td>
<td>Peter H. Howarth (Southampton (Hampshire), United Kingdom)</td>
<td>5096</td>
</tr>
<tr>
<td>17:50</td>
<td>What is the clinical profile of anti-IL-5 therapy in the severe eosinophilic asthma patient?</td>
<td>Brian Kent (London, United Kingdom)</td>
<td>5097</td>
</tr>
<tr>
<td>18:15</td>
<td>What happens long term with IL-5 therapy?</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
<td>5098</td>
</tr>
<tr>
<td>18:35</td>
<td>Start or stop? Strategy for patient selection</td>
<td>Neil Martin (Leicester (Leicestershire), United Kingdom)</td>
<td>5099</td>
</tr>
<tr>
<td>18:55</td>
<td>Q&amp;A and Chair’s close: Are they all the same?</td>
<td>Marc Humbert (Paris, France)</td>
<td>5100</td>
</tr>
<tr>
<td>17:15</td>
<td><strong>Session 515</strong> 17:15 - 19:15 Industry evening symposium: Priorities and preferences: Does inhaler choice make a difference in COPD?</td>
<td>Organised by Boehringer Ingelheim International GmbH</td>
<td></td>
</tr>
<tr>
<td>17:15</td>
<td>Starting with our patients: What are the practical realities?</td>
<td>Daniel Dusser (Paris, France), David M. G. Halpin (Exeter Devon, United Kingdom)</td>
<td>5101</td>
</tr>
</tbody>
</table>
### 7.2A  Session 516  17:30 - 19:00

**Industry evening mini symposium: The Next Step in Disease Management from an Interventional Pulmonology Perspective: Focusing on Lung Nodules and Emphysema**  
*Organised by Broncus Medical*

**Chairs:** Felix J.F. Herth (Heidelberg, Germany)

- **17:30** Welcome and Introduction
  Felix J.F. Herth (Heidelberg, Germany)

- **17:40** Bronchoscopic Thermal Vapor Ablation: Best Practice Recommendations from an Expert Panel on Endoscopic Lung Volume Reduction  
  Daniela Gompelmann (Heidelberg, Germany)

- **17:55** Removal of Diseased Emphysematous Tissue with Bronchoscopic Thermal Vapor Ablation  
  Arschang Valipour (Wien, Austria)

- **18:10** Interim Analysis on the Evaluation of the Archimedes™ System for Transparenchymal Nodule Access (The EAST 2 Study)  
  Gerard J. Criner (Philadelphia, United States of America)

- **18:25** Seek and Destroy: Moving into Bronchoscopic Therapeutics  
  Felix J.F. Herth (Heidelberg, Germany)

- **18:40** Panel Discussion and Q&A

### 7.2B  Session 517  17:30 - 19:00

**Industry evening mini symposium: Can the ESC/ERS Pulmonary Hypertension Guideline Targets be Achieved?**  
*Organised by Merck & Co, Inc.*

**Chairs:** Carmine Dario Vizza (Roma (RM), Italy)

- **17:35** Assessing the mortality risk in PAH Patients  
  Chipps Bradley Elliott (Sacramento, United States of America)

- **17:45** What to do when patients don’t reach the treatment goals?  
  5115

- **18:30** Interactive Discussion  
  5116

### 7.2D  Session 518  17:30 - 19:00

**Industry evening mini symposium: Novelties in ICS nebulization treatments**  
*Organised by AstraZeneca PLC*

**Chairs:** Kevin Murphy (Omaha, United States of America), Nanshan Zhong (Guangzhou (Guangdong), China)

- **17:30** Welcome and introduction  
  Kevin Murphy (Omaha, United States of America), Nanshan Zhong (Guangzhou (Guangdong), China)

- **17:35** Systemic steroid overuse in children and adults: past or future?  
  Chipps Bradley Elliott (Sacramento, United States of America)
### Industry evening expert forum: Controversies in NTM lung disease - an interactive case discussion

**Organised by Insmed Ireland Ltd.**

**Chairs:** James D. Chalmers (Dundee (Angus), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>17:30</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>17:30</td>
<td>Jakko van Ingen (Nijmegen, Netherlands)</td>
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<tr>
<td>17:30</td>
<td>Claire Andrejak (Amiens, France)</td>
</tr>
</tbody>
</table>

### Industry evening expert forum: Protection of Patients With Chronic Respiratory Diseases and Other Comorbid Conditions Against Pneumonia: Changing Paradigms

**Organised by Pfizer**

**Chairs:** Pierre-Régis Burgel (Sorbonne Paris Cité, France)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>Pierre-Régis Burgel (Sorbonne Paris Cité, France)</td>
</tr>
<tr>
<td>17:35</td>
<td>A Population at Risk: The Burden of Pneumonia in Patients With COPD and Other Risk Conditions</td>
<td>Gernot G.U. Rohde (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>17:55</td>
<td>Rethinking Pneumococcal Vaccination Strategies Based on Novel Data</td>
<td>Antoni Torres (Barcelona, Spain)</td>
</tr>
<tr>
<td>18:25</td>
<td>Protecting Patients at Risk Against Pneumococcal Pneumonia: Threats, Weaknesses, and Opportunities</td>
<td>Abdullah Sayner (Izmir, Turkey)</td>
</tr>
<tr>
<td>18:40</td>
<td>Podium Discussion</td>
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<tr>
<td>ZOCK J.</td>
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<tr>
<td>ZURBA L.</td>
<td>3724, 3726, 3729, 3731, 3733</td>
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</tr>
<tr>
<td>ZYSMAN M.</td>
<td>1526, PA5071, 5353</td>
<td></td>
</tr>
</tbody>
</table>
AUTHOR INDEX
AUTHOR INDEX
AUTHOR INDEX
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MADRID Spain, 28 September – 2 October
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