Pre-congress content  Session 3  00:00 - 23:59

Hot topics: The changing and challenging landscape of the global tobacco epidemic: from vaping to cannabis?

**Aims:** To raise awareness among the respiratory health care community about the tobacco epidemic changing landscape and nicotine additive products evolution; to inform respiratory healthcare providers about cannabis health effects, from medicinal use to health hazards (focusing on lung health); to update the latest scientific findings and inform the respiratory health care community on the health effects of novel and emergent cannabis, tobacco and nicotine products; to raise awareness for the need to involve respiratory health care providers and researchers, the patients and the public on the cannabis legalization debate

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

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<th>Time</th>
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<tbody>
<tr>
<td>00:00</td>
<td>Now it is not only about cigarettes: dual, triple, multiuse of nicotine and cannabis products. What to expect (focus on lung health)</td>
<td>Charlotta Pisinger (Frederiksberg, Denmark)</td>
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<tr>
<td>00:30</td>
<td>What we know and what we do not know about cannabis health effects: a concern for lung health?</td>
<td>Ellen Burnham (Aurora, United States of America)</td>
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<tr>
<td>00:45</td>
<td>Behind the scenes. The public health concerns of marijuana legalization; from production to marketing and recreational use</td>
<td>Stanton Glantz (San Francisco, United States of America)</td>
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Pre-congress content  Session 4  00:00 - 23:59

Professional development: Teaching, learning and assessments: key principles

**Aims:** To describe the key concepts in teaching, learning and assessment in the medical education context; to identify the different adult learning theories i.e. Andragogy, heutagogy etc.; to recall the teacher’s toolkit and apply the relevant tools for each teaching intervention (i.e. small and large group learning, teaching in the clinical context, peer learning, simulation); to identify when to use formative vs summative assessment methods

**Tag(s):** Clinical

**Target audience:** Thoracic surgeon, Paediatrician, Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Physician in Pulmonary Training

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<th>Time</th>
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<tr>
<td>00:00</td>
<td>Applying teaching and design principles from learning theory</td>
<td>Suzanne Schut (Maastricht, Netherlands)</td>
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<td>00:30</td>
<td>Teaching and learning for health professionals</td>
<td>Annie Noble (Bristol, United Kingdom)</td>
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<td>00:45</td>
<td>Formative and summative assessment - Theory</td>
<td>Robert Primhak (Sheffield (South Yorkshire), United Kingdom)</td>
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<td>Formative and summative assessment - Practical application</td>
<td>Robert Primhak (Sheffield (South Yorkshire), United Kingdom)</td>
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Pre-congress content  Session 5  00:00 - 23:59

Professional development: Medical writing

How to write an article

**Aims:** To describe the basics of medical writing to an audience of ERS members at various levels in their professional careers.

**Tag(s):** Translational

**Target audience:** Clinical researcher, Physician in Pulmonary Training, General practitioner, Scientist (basic, translational), Medical Student

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<th>Time</th>
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<tr>
<td>00:00</td>
<td>Why should we publish?</td>
<td>Enrico Ruffini (Torino (TO), Italy)</td>
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<td>Structure of an article; Typology of papers; Cycle of a manuscript</td>
<td>Gilbert Massard (Esch Sur Alzette, Luxembourg), Enrico Ruffini (Torino (TO), Italy)</td>
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Pre-congress content  |  Session 6  |  00:00 - 23:59
---|---|---
**Professional development: Leading and managing change**

**Aims**: To describe the causes of resistance to change and strategies to overcome this resistance; to describe steps to use in planned changes; and to effectively communicate with and motivate staff members throughout the change process.

**Target audience**: Clinical researcher, Respiratory critical care physician, General practitioner, Medical Technical Assistant, Nurse, Paediatrician, Patient, Pathologist, Physiologist, Respiratory physiotherapist, Radiologist, Scientist (basic, translational), Medical Student, Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician, Physician in Pulmonary Training, Respiratory therapist

*Why change efforts fail; 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; Action planning*
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content  |  Session 7  |  00:00 - 23:59
---|---|---
**Professional development: How to deal with difficult people**

**Aims**: To describe methods enabling caregivers to deal with challenging situations; to enhance effective communication skills; and to identify difficult personality types and describe specific strategies for dealing with them.

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, General practitioner, Medical Technical Assistant, Nurse, Paediatrician, Patient, Pathologist, Physiologist, Respiratory physiotherapist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Physician in Pulmonary Training, Medical Student, Respiratory therapist

*What makes a situation challenging? How to implement a communication approach*
Louellen N. Essex (Wayzata, United States of America)

*How to use a coping technique when communication fails*
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content  |  Session 8  |  00:00 - 23:59
---|---|---
**Professional development: Teamability: becoming an effective team leader and member**

**Aims**: To describe the characteristics of effective and ineffective teams, team leaders and team members; to describe various styles of team interaction and the integration of these styles; to evaluate skills to use in building relationships, managing differences and building trust and collaboration; and to describe methods to collaboratively lead and participate in healthcare teams.

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory critical care physician, Respiratory physiotherapist, Respiratory therapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

*What makes a team effective?*
Louellen N. Essex (Wayzata, United States of America)

*Stages of team development: how to lead and participate effectively through emotions, behaviours and tasks*
Louellen N. Essex (Wayzata, United States of America)

*Stages of team development - Part 2; Action planning*
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content  |  Session 9  |  00:00 - 23:59
---|---|---
**Year in review: Clinical year in review**

**Exercise capacity and physical activity in paediatric respiratory diseases**

**Aims**: To evaluate the pathophysiology of exercise intolerance in children and adolescents with bronchopulmonary dysplasia (BPD), asthma, congenital heart disease (CHD), and cystic fibrosis (CF); to provide updates on recent advances in paediatric exercise intervention research; to describe strategies to promote physical activity in paediatric respiratory disease patients; to describe diagnostic approaches to assess exercise capacity in paediatric respiratory diseases patients; and to compare the safety and efficacy of exercise regimes among children with respiratory disease.
### Session 10 00:00 - 23:59

**Pre-congress content**

**Year in review: Scientific year in review**

**Mechanisms regulating lung diseases across the lifespan**

**Aims:** To describe recent scientific advances in preterm, infant, childhood and adolescent/adult lung health and in two major lung diseases in adults and the elderly; to describe the impact of preterm and childhood events on lifelong lung health; to explain how diet, metabolism, genetics and the epigenome modulate asthma severity in childhood; to determine the contributions of lifestyle and environmental factors to the evolution of COPD; and to identify similarities in the mechanisms underlying lung cancer and idiopathic pulmonary fibrosis.

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Scientist (basic, translational), Thoracic oncologist, Journalist

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>00:00</td>
<td>Diverging effects of premature birth and bronchopulmonary dysplasia on exercise capacity and physical activity: a case control study</td>
<td>Helge Hebestreit (Wuerzburg, Germany)</td>
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<td>00:15</td>
<td>Physical activity and asthma development in childhood: prospective birth cohort study</td>
<td>Marianne Eijkemans (Vught, Netherlands)</td>
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<tr>
<td>00:30</td>
<td>Impaired pulmonary function and its association with clinical outcomes, exercise capacity and quality of life in children with congenital heart disease</td>
<td>Pascal Amedro (Montpellier, France)</td>
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<tr>
<td>00:45</td>
<td>Test-retest reliability, minimal detectable change and minimal clinically important differences in the modified shuttle walk test in children and adolescents with cystic fibrosis</td>
<td>Tamara Del Corral Nuñez-Flores (Madrid, Spain)</td>
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### Session 11 00:00 - 23:59

**Pre-congress content**

**Year in review: Paediatric year in review**

**Aims:** To describe advances in paediatric respiratory medicine occurring over the past year.

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

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational)

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<tr>
<th>Time</th>
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<tr>
<td>00:00</td>
<td>Preterm birth effects on future lung health</td>
<td>Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)</td>
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<tr>
<td>00:15</td>
<td>Lifelong effects of genetic lung diseases and their origins in childhood</td>
<td>Mirjam Stahl (Berlin, Germany)</td>
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<td>00:30</td>
<td>Lifestyle, environmental and occupational effects on the teenage and adult lung</td>
<td>Sukhwinder Singh Sohal (Launceston (TAS), Australia)</td>
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<td>00:45</td>
<td>The aging lung</td>
<td>Silke Meiners (München, Germany)</td>
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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>00:00</td>
<td>Cellular mechanisms of paediatric lung disease</td>
<td>Anne Hilgendorff (München, Germany)</td>
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<td>00:15</td>
<td>Cystic fibrosis fibrosis bronchiectasis</td>
<td>Keith Grimwood (Gold Coast (QLD), Australia)</td>
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<td>00:30</td>
<td>Non-cystic fibrosis bronchiectasis</td>
<td>Anne Bernadette Chang (Brisbane (QLD), Australia)</td>
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Pre-congress content  Session 12 00:00 - 23:59
Expert view: Do we really need guidelines?

Aims: To discuss the need for official clinical guidance from scientific societies and other bodies, addressing the types of documents and guideline developers, the methodological requirements, the various stakeholders involved as end-users, with a special focus on clinical needs.

Disease(s): Respiratory critical care

Method(s): General respiratory patient care  Respiratory intensive care  Surgery

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Medical Technical Assistant, Nurse, Paediatrician, Patient, Respiratory physiotherapist, Medical Student, Thoracic oncologist, Thoracic surgeon

00:00  Do we really need guidelines?
Nicolas Roche (Paris, France)

Pre-congress content  Session 13 00:00 - 23:59
Expert view: CRISPR for dummies

Aims: CRISPR is an acronym for “Clustered Regularly Interspaced Short Palindromic Repeats” and this session will explain how its technology can be used to modify gene functions. To describe the potential applications of CRISPR technology. To identify new ways researchers are working on to cure diseases using CRISPR technology.

Disease(s): Airway diseases

Method(s): Cell and molecular biology

Tag(s): Translational, Basic science

Target audience: Clinical researcher, Pathologist, Scientist (basic, translational), Medical Student, Nurse, Adult pulmonologist/Clinician

00:00  CRISPR for dummies
Alen Faiz (Ultimo (NSW), Australia)

Pre-congress content  Session 14 00:00 - 23:59
Expert view: Microplastic in the lungs: should we be worried?

Aims: To examine the evidence that microplastics are present in ambient air; to establish the size distribution of ambient microplastics to determine if they are inhalable; to examine the evidence that microplastics are toxicological active; to discuss the human health implication of inhaling microplastics.

Disease(s): Airway diseases

Method(s): Epidemiology  Public health

Tag(s): Basic science

Target audience: Medical Student, Scientist (basic, translational)

00:00  Microplastic in the lungs
Frank J. Kelly (London, United Kingdom)

Pre-congress content  Session 15 00:00 - 23:59
Expert view: Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve

Aims: To emphasize on the pulmonologist’s role and highlight puzzling situations in the clinical interpretation of nodules’ radiological patterns in pragmatic clinical practice. At the end of this session the attendees will be able to consider specific aspects in solving puzzling SPNs in their clinical practice, rationalize the diagnostic work up and follow up. Geographic variation has and special patient groups have been included in this presentation.

00:00  Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve
Frank J. Kelly (London, United Kingdom)
Disease(s): Thoracic oncology
Method(s): Imaging  Surgery
Tag(s): Clinical
Target audience: Thoracic surgeon, Thoracic oncologist, Adult pulmonologist/Clinician, Radiologist, Clinical researcher, General practitioner, Nurse, Medical Student

00:00  Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve
Georgia Hardavella (Athens, Greece)

Pre-congress content  Session 16  00:00 - 23:59
Expert view: Transbronchial cryobiopsy in diffuse parenchymal lung diseases
Aims: To evaluate appropriate biopsy methods for the diagnosis of interstitial lung diseases; to describe the risks of and indications for transbronchial cryobiopsy and to compare the safety and efficacy of this method with other biopsy methods (e.g., transbronchial biopsy with conventional forceps and surgical lung biopsy).
Disease(s): Interstitial lung diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Pathologist, Physician in Pulmonary Training, Thoracic surgeon

00:00  Transbronchial cryobiopsy in diffuse parenchymal lung diseases
Claudia Ravaglia (Forlì, Italy)

Pre-congress content  Session 17  00:00 - 23:59
Expert view: The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis
Aims: To describe the use of high-resolution computed tomography (HRCT) in the multidisciplinary approach to patients with diffuse and interstitial lung disease; to describe characteristics on HRCT scans differentiating among definite usual interstitial pneumonia (UIP), probable UIP, indeterminate for UIP and an alternative diagnosis; to describe the role of HRCT in clinical decision making in patients suspected of having idiopathic pulmonary fibrosis (IPF) and to compare ATS/ERS/JRS/ALAT clinical guidelines with the Fleischner Society criteria for the diagnosis of IPF.
Disease(s): Interstitial lung diseases
Method(s): Imaging
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Pathologist, Radiologist

00:00  The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis
Johny Verschakelen (Leuven, Belgium)

Pre-congress content  Session 18  00:00 - 23:59
Expert view: Managing stable, severe COPD
Aims: To describe recommendations for management of patients with nonexacerbated but severe COPD, including the identification and reduction of risk factors; to describe pharmacologic and nonpharmacologic treatment modalities and their outcomes; to describe the use of step-up and step-down treatment approaches; and to emphasise the important role of evaluating and managing comorbidities, especially for cardiovascular diseases, as well as the use of polypharmacy, in patients with severe COPD.
Disease(s): Airway diseases  Respiratory critical care
Method(s): General respiratory patient care  Palliative care  Pulmonary rehabilitation
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Journalist

00:00  Managing stable, severe COPD
Leonardo Michele Fabbri (Modena, Italy)

Pre-congress content  Session 19  00:00 - 23:59
Expert view: Bronchoscopy interventions in ventilated patients
Do invasive pulmonary interventions alter treatment of ventilated patients in the intensive care unit with consolidations?
**Aims:** To describe the specific risks associated with bronchoscopic interventions in ventilated critically ill patients; to assess methods available to obtain lung tissue samples from ventilated critically ill patients; and to determine categories of critically ill patients who may benefit from bronchoscopy guided lung tissue biopsy. This session is applicable to training, including training of radiologists, respiratory critical care physicians, journalists, basic and applied scientists, and thoracic surgeons.

**Disease(s):** [Interstitial lung diseases](#), [Respiratory critical care](#), [Respiratory infections](#)

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Pathologist, Physician in Pulmonary Training, Radiologist, Respiratory critical care physician, Journalist, Scientist (basic, translational), Thoracic surgeon

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<tr>
<th>Session 20</th>
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<tr>
<td><strong>Expert view: Diagnosis and management of chronic fibrotic hypersensitivity pneumonitis</strong></td>
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<td><strong>Aims:</strong> To present state of the art decision algorithms, based on serologic testing, the pathogenesis of lung inflammation and the development of fibrosis, in the diagnosis (laboratory, radiology, pathology) and management of patients with chronic fibrotic hypersensitivity pneumonitis; to describe subtle radiological findings that differentiate this disease from other interstitial lung diseases, such as usual interstitial pneumonia; to evaluate the pathological diagnosis of chronic fibrotic hypersensitivity pneumonitis; and to assess the efficacy of anti-fibrotic and immunosuppressive agents.</td>
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<td><strong>Disease(s):</strong> <a href="#">Interstitial lung diseases</a></td>
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<td><strong>Method(s):</strong> Cell and molecular biology, General respiratory patient care, Imaging</td>
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<td><strong>Tag(s):</strong> Translational</td>
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<tr>
<td><strong>Target audience:</strong> Clinical researcher, General practitioner, Pathologist, Radiologist, Respiratory critical care physician, Scientist (basic, translational)</td>
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<th>Session 21</th>
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<td><strong>Expert view: Tips and pitfalls of cardiopulmonary exercise testing</strong></td>
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<td><strong>Aims:</strong> To describe the physiological basis of exercise testing and its clinical application to lung diseases; to describe the indications and protocols used in clinical settings (e.g., incremental, constant work-rate); to evaluate the utility of exercise testing in pharmacological and non-pharmacological interventions; and to describe the importance of exercise testing in patient prognosis.</td>
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<td><strong>Disease(s):</strong> <a href="#">Sleep and breathing disorders</a></td>
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<td><strong>Method(s):</strong> Physiology</td>
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<td><strong>Tag(s):</strong> Clinical</td>
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<td><strong>Target audience:</strong> Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist</td>
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<th>Session 22</th>
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<td><strong>Expert view: Successfully managing adolescent and young adult patients with asthma</strong></td>
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<td><strong>Aims:</strong> To describe the challenges faced by adolescents and young adults with asthma and their status as at risk patients; and to evaluate methods enabling adolescents and young adults to better self-manage their asthma.</td>
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<td><strong>Disease(s):</strong> <a href="#">Airway diseases</a>, <a href="#">Paediatric respiratory diseases</a></td>
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<td><strong>Method(s):</strong> General respiratory patient care, Public health</td>
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<td><strong>Tag(s):</strong> Clinical</td>
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<td><strong>Target audience:</strong> Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist</td>
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Pre-congress content  Session 23  00:00 - 23:59

Expert view: Extracorporeal life support in lung failure and lung transplant bridging: when and how

Aims: To describe invasive mechanical respiratory support, including mechanical ventilation and/or extracorporeal life support (ECLS), that has become common practice in patients with acute cardiopulmonary failure or for bridging to lung transplantation; to describe technical and ethical challenges associated with ECLS; to evaluate technical expertise, knowledge of candidate selection, transplant referral guidelines and organ allocation systems crucial to achieve acceptable results in patients on ECLS; and to describe the aims, indications, contra-indications, principles and complications of ECLS.

Disease(s): Respiratory critical care
Method(s): Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Paediatrician, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Thoracic surgeon

00:00  Extracorporeal life support in lung failure and lung transplant bridging: when and how
Arne Neyrinck (Leuven, Belgium)

Pre-congress content  Session 24  00:00 - 23:59

Expert view: Physiotherapy in chronic respiratory infections

Aims: To evaluate the ability of respiratory physiotherapy to prevent exacerbations and reduce the impact of chronic infections in patients with chronic respiratory diseases, including COPD, bronchiectasis, asthma and cystic fibrosis.

Disease(s): Airway diseases, Respiratory infections
Method(s): General respiratory patient care, Pulmonary rehabilitation
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Respiratory physiotherapist, Journalist

00:00  Physiotherapy in chronic respiratory infections
Arietta Spinou (London, United Kingdom)

Pre-congress content  Session 25  00:00 - 23:59

Expert view: Optimal treatment for multistage N2-disease

Aims: To determine the prognosis of patients with stage III NSCLC and ipsilateral lymph nodes; to differentiate among types of N2 disease; to describe the different treatment modalities (surgery plus chemotherapy; surgery, chemotherapy and radiotherapy; radiochemotherapy, and radiochemotherapy plus PD-L1 inhibition) and their advantages and disadvantages in specific situations; to assess the relevance of a multidisciplinary tumour board for these patients; and to describe future developments in immunology

Disease(s): Thoracic oncology
Method(s): Endoscopy and interventional pulmonology, Imaging, Surgery
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Pathologist, Radiologist, Thoracic oncologist, Thoracic surgeon

00:00  The optimal treatment for multistage N2-disease
Rudolf M. Huber (Munich, Germany)

Pre-congress content  Session 26  00:00 - 23:59

Expert view: From life threatening to chronic connective tissue disease-associated interstitial lung disease (CTD-ILD): all you need to know
Compare and contrast acute vs chronic CTD-ILD management

Aims: To evaluate interstitial lung disease associated with connective tissue disease (CTD-ILD) as a major cause of morbidity and mortality; to describe the complex management of these diseases, based on their presentations and patterns, their uncertain disease course and their high morbidity and mortality rates; to review the management of life-threatening acute and subacute CTD/ILD, including medical and ICU management; to describe the treatment of patients with chronically progressive CTD-ILD, including the results of recent and ongoing trials and a suggested approach to management decisions; and to compare and contrast key issues on the management of acute vs. chronic CTD-ILD.

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020

31.08.2020
Disease(s) : Interstitial lung diseases, Respiratory critical care
Method(s) : General respiratory patient care, Imaging, Respiratory intensive care
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory therapist, Medical Student, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory critical care physician, Respiratory physiotherapist, Scientist (basic, translational)

00:00 From life threatening to chronic connective tissue disease-associated interstitial lung disease: all you need to know
Sonye Danoff (Baltimore, United States of America)

Pre-congress content Session 27 00:00 - 23:59
Expert view: Treatment in pulmonary hypertension
Aims : To describe updated treatment algorithms in pulmonary hypertension; to evaluate treatments of chronic thromboembolic pulmonary hypertension; and to determine when to treat or not to treat pulmonary hypertension.

Disease(s) : Pulmonary vascular diseases
Method(s) : General respiratory patient care
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Thoracic surgeon

00:00 Treatment of pulmonary hypertension
Sean Gaine (Dublin, Ireland)

Pre-congress content Session 28 00:00 - 23:59
Expert view: Burning up while burning out: compassion fatigue awareness and burnout prevention for practitioners
Aims : This session will define Compassion Fatigue and Burnout and provide examples of symptoms and signs. Awareness training and methods for transforming these types of distress into resilience and prevention shall be provided through teaching self-care, and improving compassion cultivation skills.

Disease(s) : Respiratory critical care
Method(s) : Public health, Respiratory intensive care
Target audience : Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Respiratory critical care physician

00:00 Burning up while burning out: compassion fatigue awareness and burnout prevention for practitioners
Howard Baumgarten (Lakewood, United States of America)

Pre-congress content Session 29 00:00 - 23:59
Expert view: AI: are the doctors still needed?
Aims : This session will address whether doctors are still needed due to AI development and describe AI applications in (respiratory) medicine, the main characteristics of doctors and AI, and the future of AI in (respiratory) medicine.

Disease(s) : Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : Pulmonary function testing, Imaging
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Technical Assistant, Paediatrician, Physiologist, Medical Student, Respiratory therapist, Respiratory physiotherapist, Scientist (basic, translational)

00:00 AI: are the doctors still needed?
Marko Topalovic (Leuven, Belgium)

Pre-congress content Session 30 00:00 - 23:59
Expert view: Common variable immunodeficiency (CVID)
Why should I care as a pulmonologist?
Aims : To identify patients with common variable immunodeficiency (CVID); to inform patient and referring physician about CVID-ILD; to manage CVID-ILD in co-operation with a specialist in immunodeficiency.

00:00
Pre-congress content  Session 31  00:00 - 23:59
Expert view: Gender-based differences in drug toxicity

**Aims:** To explain the toxic effect of drugs and how it can differently affect an entire system or a specific organ based on gender. To define how gender has a factor in adverse reactions to certain drug treatments. To explain the considerations when deciding on the treatment type and/or dosage for both men and women.

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

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

**Tag(s):** Basic science

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Scientist (basic, translational), Medical Student, Respiratory critical care physician

**00:00**  
Gender-based differences in drug toxicity  
Philippe Camus (Dijon, France)  
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Pre-congress content  Session 32  00:00 - 23:59
Expert view: The role of patients in medicine

**Aims:** As a patient or carer you have a unique perspective on the impact of a health condition on life, work and family. Being a patient representative and speaking up for people with your condition can make a huge difference to how healthcare is delivered. This session explains how and why patients should represent themselves and others in areas such as research, guideline production, advocacy and conferences such as the ERS.

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

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Pathologist, Paediatrician, Patient, Scientist (basic, translational), Medical Student

**00:00**  
The role of patients in medicine  
Isabel Saraiva (Cascais, Portugal), Kjeld Hansen (Oslo, Norway)  
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Pre-congress content  Session 33  00:00 - 23:59
Expert view: Genom revolution: Human Lung Cell Atlas

**Aims:** To introduce the Human Cell Atlas international research consortium; to share the first Human Lung Cell Atlas and DiscovAIR results; to showcase the impact of the Human Lung Cell Atlas; to share how to participate and join the Lung Cell Atlas network

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

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

**Tag(s):** Translational, Basic science

**Target audience:** Clinical researcher, Adult pulmonologist/Clinician, Medical Student, Paediatrician, Pathologist, Scientist (basic, translational)

**00:00**  
DiscovAIR: Basic science - Human Lung Cell Atlas  
Martijn C. Nawijn (Groningen, Netherlands)  
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Pre-congress content  Session 34  00:00 - 23:59
E-poster session: Aspects of pulmonary rehabilitation: part 2

**Disease(s):** Airway diseases

**Method(s):** Pulmonary rehabilitation, General respiratory patient care

**Chairs:** Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Clancy Dennis (Canberra (ACT), Australia)
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<td>Method(s):</td>
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<td>Bita Hajian (Haelen, Netherlands), Michael Furian (Zürich, Switzerland)</td>
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<td>Home-based exercise training (HET) post-hospitalisation for acute exacerbation of COPD (AECOPD) - a mixed-method systematic review</td>
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<td>Ruth E Barker (Aylesbury (Buckinghamshire), United Kingdom), Morag Farquhar, Lisa Jane Brighton, Claire M Nolan, Sarah E Jones, Suhani Patel, Jessica A Walsh, Jadwiga A Wedzicha, William D-C Man, Matthew Maddocks</td>
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<td>Palliative oxygen for the relief of breathlessness: a qualitative meta-synthesis</td>
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<td>Slavica Kochovska (Sydney, Australia), Diana Ferreira, Maja Garcia, Jane Phillips, David Currow</td>
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Efficacy comparison of inpatient vs outpatient pulmonary rehabilitation: a Systematic Review
Virginie Molinier (Lodève, France), Nelly Heraud, François Alexandre

The role of neuromuscular electrostimulation in patients with advanced COPD included in pulmonary rehabilitation programs
Emanuela Tudorache (Timisoara (Timis), Romania), Daniel Traila, Monica Marc, Camelia Pescaru, Patricia Hoga, Noemi Porojjan Suppini, Ariadna Petronela Fildan, Ovidiu Fira Mladinescu, Cristian Oancea

Internet access and usage in patients with chronic respiratory disease
Oliver Polgar (Harrow, United Kingdom), Claire M Nolan, Ruth E Barker, Suhani Patel, Jessica A Walsh, William D-C. Man

The Role of Diet in COPD Rehabilitation
Katalin Csicsely Károlyiné (Budapest, Hungary), Mária Kerti, Krisztina Tóth, János Varga

Association between Frailty Index and BODE index with lung function and mortality in COPD
Panaioits Finamore (Roma (RM), Italy), Simone Scarlata, Vittorio Cardaci, Francesco D’Alessandro, Raffaele Antonelli Incalzi, Matteo Cesari

Pulmonary rehabilitation in COPD: influence of comorbidities on physical activity
Matthias Limbach (Bad Reichenhall, Germany), Michael Wittmann, Nicola Lehbert, Wolfgang Geidl, Johannes Carl, Klaus Pfeifer, Konrad Schultz

The association between respiratory muscle function and physical activity level and exercise tolerance in patients with COPD: Preliminary results.
Tamara Michalcíková (Holesov, Czech Republic), Katerina Neumannova, Pavla Horova, Martin Dvoracek, Eva Volakova, Jaromir Zatloukal, Jan Dygrýn

Intra-patient reproducibility of continuous saturation evaluation.
Francesco Bini (Pavia (PV), Italy), Bruno Bodini, Sergio Bernorio

Benefits of measured isotiming in constant cardiopulmonary exercise testing in a structured physical activity program
Walther Ivan Giron Matute (Madrid, Spain), Irene Milagros Dominguez Zabaleta, Gianna Vargas Centanaro, Myriam Calle Rubio, Marta Godin Vivancos, Juan Luis Rodriguez Hermosa, Javier De Miguel Diez, Luis Puente Maestu

The effectiveness of early pulmonary rehabilitation in acute exacerbation of COPD in the terms of functional and systemic markers.
Janos Tamas Varga (Budapest, Hungary), Csilla Paska, Imre Barta, Maria Kerti, Zsuzsanna Kelemen, Krisztina Kelemen, Balazs Antus

Postural sway and chest wall kinematics during inspiratory loading in individuals with COPD.
Jadranka Spahija (Montréal (QC), Canada), Ahmed Imcaoudene, Manpreet Virdi, Naiana Muntini, Michel De Marchie, Joyce Fung

The effect of pulmonary rehabilitation programs on physical activity level and perception of exercise in patients with chronic respiratory disease
Elif Özari Yıldırım (İstanbul, Turkey), İpek Özmen, Meral Karakış, Murat Öztürk, Emre Sahal, Ruya Aydın

COPD patients’ experience of long-term domestic oxygen-enriched nasal high flow treatment: A qualitative study.
Line Storgaard (Aabybro, Denmark), Ulla Weinreich, Birgitte S. Laursen

Effect of long-acting muscarinic antagonist (LAMA) on 24-hour physical behaviours in COPD
Sarah Edwards (Leicester (Leicestershire), United Kingdom), Mark Orme, Theresa Harvey-Dunstan, Ruth Tal-Singer, Michael Polkey, Michael Steiner, Mike Morgan, Sally Singh

Adapted physical activity intervention for improvement of quality of life in patients with idiopathic pulmonary fibrosis
Sergio Calvache Castillo (Jaen, Spain), Susana Herrera Lara, Martia Sandemetrio, Marta Acosta Dávila, Cristina De Juana Izquierdo, Alberto Herrejón Silvestre, Eva Martinez-Moragón

Does the benefit from pulmonary rehabilitation differ between phenotypes in COPD?
Gülru Erbay Polat (İzmir, Turkey), Melih Büyükşirin, Hülya Şahin, Aysu Ayranç, Gülistan Karadeniz, Filiz Güldaval, Seher Susam, Fatma Uçsular, Ceyda Anar, Onur Sünècli
The effect of inspiratory muscle training in interstitial lung diseases
Mária Kerti (Budapest, Hungary), Beatrix Bayer, Blanka Tóth, János Tamás Varga

Pre-congress content
Session 36 00:00 - 23:59

E-poster session: Diagnosis and management of COPD

Disease(s): Airway diseases, Respiratory critical care
Method(s): General respiratory patient care, Epidemiology, Palliative care, Respiratory intensive care, Pulmonary function testing, Public health

Chairs: Lucia Cestelli (Bergen, Norway), Pradeesh Sivapalan (Hellerup, Denmark), Alberto Papi (Ferrara, Italy)

Variability in eosinophil levels at start of severe exacerbations of COPD
Emanuel Citgez (Wierden, Netherlands), Job Van Der Palen, Paul Van Der Valk, Huib Kerstjens, Marjolein Brusse-Keizer

Frailty and Risk of COPD Readmission within 30 Days Following Exacerbation of COPD
Jaber Alqahtani (London, United Kingdom), Trixica Kapdee, Shumonta Quaderi, Abdulelah Aldhahir, Swapna Mandal, John Hurst

Association between airway bacterial abundance and urinary inflammatory biomarkers in COPD
Ahmed Javid Yousuf (Oxford (Oxfordshire), United Kingdom), Vijay Mistry, Liesl Carr, Gita Parekh, Mohmmadali Yavari Ramshe, Sarah Parker, Joanne Finch, Sarah Glover, Lynne Watson, Chris Brightling

Significant parameters in CBC profiles for expecting outcomes of COPD
JUNG-KI YOON (SEOUL, Republic of Korea), Jung-Kyu Lee, Eun-Young Heo, Chang-Hoon Lee, Ho Il Yoon, Yong-Il Hwang, Chin Kook Rhee, Kwang Ha Yoo, Hee Soon Chung, Deog Kyeom Kim

SERUM \( \beta \)-2-MICROGLOBULIN CORRELATES WITH COPD OUTCOMES AND PREDICTS FUTURE HOSPITALIZATION.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Armando Raúl Guerra, Mayte García-Unzueta, Juan Agüero, Sandra Tello, Marta Cristeto, Joy Osorio, Sheila Izquierdo, Guido Andretta, Karla Fabiola Escobar

Influence of pneumonia on the survival of patients with COPD
Christian Reynaldo Castro Riera (Madrid, Spain), Zichen Ji, Julio Hernández Vázquez, José Maria Bellón Cano, Virginia Gallo González, Beatriz Recio Moreno, Alicia Cerezo Lajas, Luis Puente Maestu, Javier De Miguel Diez

Younger COPD patients – the need for long-term follow-up
Iliya Krachunov (Pleven, Bulgaria), Zlatina Ivanova, Nikolay Kyuchukov, Temenuzhka Ignatova-Danova, Pavlina Glogovska, Plamen Pavlov, Tzanya Popova, Elena Borisova, Yavor Ivanov

Should anxiety and depression be more deeply researched in COPD?
Amaia Aramburu Ojembarrena (Galdakao, Spain), Ane Antón, Fco Javier Moraza, Leyre Chasco, Ana Jodar, Maria Gorordo, Susana Aizpiri, Jose Maria Quintana, Cristobal Esteban

The 'surprise question' in patients surviving severe COPD exacerbation.
Sarah M. Gillespie (Newcastle Upon Tyne, United Kingdom), Nicholas D Lane, Carlos Echevarria, Katherine E Frew, Stephen C Bourke

Copeptin predicts all-cause mortality in stable COPD: An analysis of the COSYCONET study
Sebastian Fähndrich (Freiburg, Germany), Christian Herr, Henrik Watz, Benjamin Waschki, Johanna Classen, Julia Demandt, Franziska C. Trudzinski, Albert Omlor, Frederik Seiler, Tobias Welte, Hans-Ulrich Kauczor, Rudolf A. Jörres, Claus Vogelmeier, Robert Bals

Analysis of NEWS2 trend to predict risk of death in COPD
Sarah Forster (Nottingham (Nottinghamshire), United Kingdom), Tricia Mckeever, Dominick Shaw

Examining the correlation between length of hospital stay and disease severity in patients with COPD
Kristina Kock Hansen (Vejle, Denmark), Lone Bach Kristensen, Ole Hilberg, Anders Lokke

30-day Readmissions After Acute Exacerbations of COPD: How Relevant Are Comorbidities?
Cláudia Freitas (Villa Nova de Gaia, Portugal), Joana Dias, Pedro Leuschner

Validation study of MEP-questionnaire for detection of exacerbations (Ebs) - interim analysis
Thomas Hering (Berlin, Germany), Nils Kossack, Axel Krimner, Dietmar Bulenda
Pre-congress content

Session 37  
00:00 - 23:59

E-poster session: Air pollution and comorbidities

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

**Method(s):** General respiratory patient care, Epidemiology, Pulmonary function testing, Physiology, Cell and molecular biology, Imaging, Public health

**Chairs:** Pierre-Régis Burgel (Sorbonne Paris Cité, France), Pieter Goeminne (Bornem, Belgium)

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**Late Breaking Abstract - COVID-19 epidemic in Respiratory Diseases Unit: partioning analysis and data mining. Results from a single Institution experience.**

Giulia Maria Stella (Pavia (PV), Italy), Giulia Accordino, Amelia Grosso, Federica Albicini, Erica Gini, Silvia Mancinelli, Matteo Della Zoppa, Davide Piloni, Angelo Corsico

121  
**Impact of PAHs exposure on exacerbation frequency in asthma using a new grid-scale simulation of PM2.5-PAHs distribution**

Yu-Chen Huang (Taipei City, Taiwan), Te Fang Sheng, Shih-Wei Lee, Chon-Lin Lee, Kian Fan Chung, Chun-Hua Wang

122  
**Prognostic value of right ventricular systolic dysfunction in patients with chronic obstructive pulmonary disease after ST-segment elevation myocardial infarction (STEMI).**

Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Alexandra Balitskaya, Antonina Bocharova, Valeriy Elykomov

123  
**Effect of COPD on immediate and long-term outcomes of STEMI.**

Alexandra Balitsky (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valeriy Elykomov, Inna Weisman

124  
**Dysfunctional breathing impacts symptom burden in Chronic Obstructive Pulmonary Disease (COPD).**

Therese Lappere (København NV, Denmark), Uffe Bodgter, Ditte Kjærgaard Klein, Laurits Frossing, Morten Hvidtfeldt, Alexander Silberbrandt, Nikolaj Obling, Leif Bjerner, Celeste Porsbjerg

125  
**Is increased gastro-intestinal permeability related to exacerbation in patients with chronic obstructive pulmonary disease?**

Roy T.M. Sprooten (Cadier en Keer, Netherlands), Emiel F.M. Wouters, Kaatje Lenaerts, Niki L. Reynaert, Miriam T.J. Groenen, Frits M.E. Franssen

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**Preclinical myocardial dysfunction in healthy smokers and COPD patients**

Vera Nevzorova (Vladivostok (Primorsky Krai), Russian Federation), Elena Kondrashova, Dmitriy Kondrashov

127  
**Inhaled steroids and prevalence of osteoporosis in chronic obstructive pulmonary disease: Data from the DACCORD cohort**

Franziska Trudzinski (Homburg (Saar), Germany), Claus F. Vogelmeier, Roland Buhl, Frederik Trinkmann, Victoria Obermoser, Peter Kardos, Carl-Peter Criée, Heinrich Worth

128  
**LS C - 2020 - Could the overweight influence bronchiectasis (B) exacerbations frequency (EF)?**

Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Kateryna Gashynova, Valeriiit Dmytrychenko

129  
**Can fractional exhaled nitric oxide be useful to differentiate asthma-chronic obstructive pulmonary disease (COPD) overlap (ACO) from COPD-only?**

SEYED MOHAMMADYOUSOF MOSTAFAVI POURMANSHADI (Montreal (QC), Canada), Nafiseh Naderi, Palmina Mancino, Pei Zhi Li, Wan Tan, Jean Bourbeau
The impact of previous pulmonary tuberculosis on lung cancer development in never smoker with COPD
Hye Yun Park (Seoul, Republic of Korea), Sun Hye Shin, Danbee Kang, Hayoung Choi, Hyun Lee, Hye Kyeong Park, Hojoong Kim, Chin Kook Rhee, Kwang Ha Yoo, Juhee Cho

Red Blood Cell Distribution Width as a potential predictor of Pulmonary Hypertension Secondary to Chronic Obstructive Pulmonary Disease
Sofia Rodrigues Sousa (Braga, Portugal), João Nunes Caldeira, Cidália Rodrigues, Ana Figueiredo, Fernando Barata

Decreased pulmonary function tests are affected by blood glucose tolerance
Ke Huang (Beijing, China), Ting Yang, Guangwei Li

Hyaluronic acid as marker of respiratory system remodelling
Vasili Fedotov (Nizhny Novgorod, Russian Federation), Tatiana Blinova

Prevalence of non-cystic fibrosis bronchiectasis in patients with severe asthma: a real-life study
Giulia Cacopardo (Palermo (PA), Italy), Claudia Crimi, Santi Nolasco, Raffaele Campisi, Lucia Spicuzza, Nunzio Crimi

Influence of tobacco smoking on lipid peroxidation in exhaled breath condensate in asthma patients with exercise-induced bronchoconstriction (EIB)
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Nakhamchen, Anna G. Prikhodko, Eugeny A. Borodin

High healthcare utilisation and functional impairment in inducible laryngeal obstruction: results from the UK national registry
Jemma Haines (Wilmslow (Cheshire), United Kingdom), Stephen J Fowler, Andrew J Simpson, Julia Selby, James H Hull

HRCT features in patients with severe asthma and non-cystic fibrosis bronchiectasis.
Giulia Cacopardo (Palermo (PA), Italy), Raffaele Campisi, Claudia Crimi, Enrico Heffler, Rossella Intravaia, Santi Nolasco, Sebastian Ferri, Nunzio Crimi

Pre-congress content Session 38 00:00 - 23:59
E-poster session: Lung function tests and exhaled biomarkers
Disease(s) : Airway diseases  Respiratory critical care
Method(s) : General respiratory patient care  Pulmonary function testing  Public health  Physiology  Cell and molecular biology  Imaging
Chairs : Frederik Trinkmann (Heidelberg, Germany), Chair to be confirmed

Late Breaking Abstract - Management of asthma in pregnancy using fractional exhaled nitric oxide (FENO) to adjust inhaled corticosteroid (ICS) dose did not improve perinatal outcomes: the Breathing for Life Trial (BLT)
Vanessa E. Murphy (Callaghan, Australia), Megan Jensen, Elizabeth Holliday, Warwick Giles, Helen Barrett, Leonie Callaway, Andrew Bisits, Michael Peek, Sean Seeho, Alistair Abbott, Paul Colditz, Andrew Searels, John Attia, Michael Hensley, Joerg Mattes, Peter Gibson

Late Breaking Abstract - Small Airways Dysfunction (SAD) correlates with relevant asthma outcomes: longitudinal results from the Assessment of small Airways involvement (ATLANTIS) Study
Monica Kraft (Tucson, United States of America), Gabriele Nicolini, Maarten Van Den Berge, Christopher Brightling, Leonardo Fabbri, Thys Van Der Molen, Alberto Papo, Klaus Rabe, Salman Siddiqui, Dave Singh, Dirkje Postma

Within-day repeatability of fractional exhaled nitric oxide in severe asthma
Run Wang (Manchester (Greater Manchester), United Kingdom), Run Wang, Fahad Alahmadi, Robert Niven, Stephen Fowler

Real life spirometry analysis according to age groups.
ALEJANDRO REZOLA CARASUSAN (Donostia San Sebastian, Spain), Ana Gomez Larrauri, Joseba Andia Iturrate, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Lorea Lorea Martinez Indart, Josep Benavent Benavent Marco, Eva Tabernero Huguet, Nuria Peter, Marina Malanda

Changes in exhaled breath particles lipid composition following experimental endotoxin challenge
Olaf Holz (Hannover, Germany), Per Larsson, Heike Biller, Grietof Koster, Anthony Postle, Anna-Carin Olin, Jens M. Hohlfeld

Transdiaphragmatic pressure in COPD patient and its correlation with diaphragm dynamics including spirometry findings.
Sandip Agarwal (new delhi, India), Randep Guleria, Anant Mohan, Karan Madan, Ge Khilnani, Vijay Hadda, Gopal Chawla
The relationship of spirometric and echocardiographic (ECHO) parameters in children with bronchial asthma (BA)


Decreased lung function is associated with vitamin D deficiency in middle aged Korean health screening examinee

Hye Kyeong Park, Heejung Jun, Jonghoo Lee, Jae-Uk Song

Feasibility of home spirometry in patients with chronic graft-versus-host disease: a prospective observational study

Jane Turner, Chad He, Lisa Chung, Kelsey Baker, Jesse Hubbard, Elizabeth Rankin, Maggie Guerrero, Michael Boeckh, Karen Syrjala, Paul Martin, Ted Gooley, Stephanie Lee, Mary Flowers, Guang-Shing Cheng

Reference values for lung clearance index (LCI) derived from sulphur hexafluoride multiple breath washout testing.

Frederik Trinkmann, Máté Maros, Katharina Roth, Arne Hermanns, Julia Schäfer, Joshua Gawlitza, Joachim Saur, Ibrahim Akin, Martin Borggrefe, Thomas Ganslandt, Felix Herth

Pulmonary dysfunction after treatment for childhood cancer - Comparing multiple-breath washout with spirometry

Jakob Usemann, Christina Schindera, Simeon Zuercher, Ruedi Jung, Bettina Frauchiger, Corina Silvia Rueegg, Philipp Latzin, Claudia Elisabeth Kuehni, Nicolas Xavier Von Der Weid

FEV6 and FEV1/FEV6 have higher association with small airway function and oxygen saturation than FVC and FEV1/FVC in patients with asthma.

Khalil Ansarin, Ensiyeh Seiyedrezazadeh

Predicting survival in COPD using the transfer factor for carbon monoxide Z-score

Roel Van Pel, T.M. Fabius, E Citgez, F.H.C. De Jongh, M Brusse-Keizer

Relationship of cardiac biomarkers in COPD to exacerbation and hyperinflation

Mairi Macleod, Gavin Donaldson, James Allinson, Dexter Wiseman, Jadwiga Wedzicha

The prognostic value of extended lung function characterization in COPD

Terezia Pincikova, Jens Ellingsen, Karin Lisspers, Hans Hedenström, Kristina Bröms, Björn Stållberg, Marieann Högman, Christer Janson, Andrei Malinovschi

Higher levels of alveolar nitric oxide in asthmatic frequent exacerbation: a pilot study.

Francesca Bertolini, Rossana Fucà, Elisa Riccardi, Vitina Carriero, Andrea Sprio, Fabio Luigi Massimo Ricciardolo

Normal range for bronchodilation response in impulse oscillometry parameters in healthy adults

Henrik Johansson, Christer Janson, Xing Zhou, Johan Sundström, Per Wollmer, Andrei Malinovschi

Prediction of peak expiratory flow of the next day through a smartphone application designed for individuals with asthma

Panagiota Sakkatos, Thomas Antalffy, Natalia Pavlovskai

A systematic review of the use of physiological tests assessing the acute response to treatment during exacerbations of COPD

Nowaf Alobaidi, Mohammed Almeshari, James Stockley, Elizabeth Sapey, Ross Edgar

Activation of the cascade-system in small airways- a pilot study in asthma with small airway involvement

Anna-Carin Olin, Spela Kokelj, Jörgen Östling

Do we require de-aeration of exhaled breath condensate samples for measuring pH?

Dibakar Sahu, Sajal De, Qmar Khan

Non Specific Spirometric Pattern: Evolving and associations with basic data

Asma Chaker, Khadija Ayed, Sahar Chakroun, Salma Mokaddem, Saloua Benkhamsa Jameleddine

Significance of the forced oscillation technique for evaluation of the bronchodilation test in patients with initial mild airway obstruction

Elena Zhukova, Lyudmila Vokhminova
Forced Oscillation technique and its association to airflow limitation in COPD
Léo Franchetti (Basel, Switzerland), Desiree Schumann, Michael Tamn, Daiana Stolz

Severity of airway obstruction in COPD: comparison of z-score-based categorization approaches against FEV1%
Ana Gómez García (Valladolid, Spain), Tomas Ruiz Albi, Daniel Alvarez González, Fernando Moreno Torrero, Milko Daniel Terranova Rios, Carolina Urbina Carrera, Andrea Crespo Sedano, Tania Álvaro De Castro, Ana Cerezo Barqueros, Jose Ignacio Santos Plaza, Félix Del Campo Matías

A novel wearable device for monitoring lung function from tidal breathing
Wieland Voigt (Berlin, Germany), Noy Danino, Nadav Bachar, Gregory Shuster

Effect of smoking cessation on CT imaging in patients with COPD: a systematic review
Daryl Cheng (London, United Kingdom), Siddharth Agarwal, Joseph Jacob, John Hurst

Normative data across the age range for Multiple Breath Nitrogen Washout
Katherine O'Neall (Belfast (Belfast), United Kingdom), Rebecca Mcleese, Denise Cosgrove, Kathryn Ferguson, Lorcan Mcearay, Judy M. Bradley

Validation study of the quality of home spirometry performed by Air Next spirometer in combination with mobile coaching system: preliminary results
Athena Gogali (Ioannina, Greece), Konstantinos Exarchos, Konstantinos Bartziokas, Agni Sioutkou, Niels Agerskov, Konstantinos Kostikas

Inspiratory-to-total lung capacity ratio in COPD: the missed information
Salma Mokaddem Mohsen (Tunis, Tunisia), Khadija Ayed, Asma Chaker, Soumaya Khalidi, Saloua Jameleddine

Clinical characteristics of asthma patients with small airway dysfunction
Cheng-Hao Chuang (Kaohsiung, Taiwan), Ming-Ju Tsai, Chau-Chyun Sheu, Ya-Ling Hsu

Lung Clearance Index (LCI) and diffusion capacity of the lung (DLCO) in children with rheumatic disease
Julia Hildebrandt (Rostock, Germany), Anja Rahn, Anja Kessler, Fabian Speth, Dagmar-Christiane Fischer, Manfred Ballmann

Assessment of oxidative stress in exhaled breath condensate of stable Chronic Obstructive Pulmonary Disease patients of Indian origin
Anjana Talwar (Noida (Uttar Pradesh), India), Geetanjali Bade, Meghashree Sampath, Karan Madan

Does heart failure make a difference in pulmonary function testing?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepenkova, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidoro

Development of the assessment of illness expectations in people with asthma
Francesco Pagnini (Italy), Eleonora Volpato, Silvia Dell'Orto, Cesare Cavalera, Francesca Spina, Paolo Innocente Banfi

The role of phonophoresis in patients with COPD: a randomized clinical trial
Meidi Shen (changan, China)

Morphine for refractory breathlessness in COPD: a randomized clinical intervention study
Cornelia Verberkt (Maastricht, Netherlands), Marieke Van Den Beucken-Van Everdingen, Jos Schols, Niels Hameleers, Emiel Wouters, Daisy Janssen
Roflumilast in severely ill patients with chronic obstructive pulmonary disease with frequent exacerbations: real-life outcomes
Jens Jensen (København Ø, Denmark), Imane Achir Alispahic, Rikke Sorensen, Josefin Eklöf, Pradeesh Sivapalan, Anders Løkke, Niels Seershohl, Jakob Hedemark Vestergaard, Christina Marisa Bergsöe,

Effects of bisoprolol and nebivolol on the left ventricular diastolic function in patients (pts) with COPD and stable angina.
Oleksandr Fesenko (Slobozhanske, Ukraine), Kateryna Bohatska

Omaveloxolone, CDDO-Me and Obacunone as promising therapeutic options in COPD
Cristina Estornut (Adelade (SA), Australia), Diana Ferreira, Daniel Barratt, Andrew Somogyi, David Currow

Effects of Bauhinia bauhinioides kallikrein protease inhibitor in mice with asthma-COPD
Iolanda Tibério (São Paulo (SP), Brazil), Luana Laura Sales Da Silva, Jessica Anastacia Silva Barbosa, Juliana Morelli Lopes Goncalves João, Tabata Maruyama Dos Santos, Leandro Do Nascimento Camargo, Elaine Cristina De Campos, Thiago Tafarel Galli, Beatriz Mangueria Saraiva-Romanholo, Suellen Karoline Moreira Bezerra, Sara Sumie Sobral Hamaguchi, Edna Aparecida Leick, Carla Máximo Prado, Milton De Arruda Martins, Maria Luiza Vilela Olivo, Renato Fraga Righetti

Inhaled bacterial mimetic increases PAD4-dependent NETosis in the lungs
Theresa Andersson (Mölndal, Sweden), Lina Odqvist, Susanne Arlbrandt, Cecilia Wingren, Pia Berntsson, Magdalena Rhedin, Matthew Dearman, Annika Borde, Mark Burrell, Annika Astrand

Genetics of response to sustained-release morphine for chronic breathlessness - an exploratory study
Diana Ferreira (Adelaade (SA), Australia), Diana Ferreira, Daniel Barratt, Andrew Somogyi, David Currow

Hypertension in chronic obstructive pulmonary disease (COPD): A review of current practice
Richard Cooper (Chester, United Kingdom), Wong Po Fung, Alison Perry, James Greenway, Harmesh Moudgil, Koottalai Srinivasan, Annabel Makan, Emma Crawford, Nawaed Almad

Effects of biweekly Alpha1 antitrypsin replacement therapy: a case series
Inês Teixeira Farinha (Maia, Portugal), Alexandra Cunha, Filipa Costa

Azithromycin to prevent exacerbations of chronic obstructive pulmonary disease: a study in the real-world setting
Marli Maria Knorst (Porto Alegre (RS), Brazil), Pedro Olivo Neto, Bruno Baron Spolidoro, Gabriela Marcolin, Danilo Cortozi Berton

Impact of the phosphatidylcholine treatment program on the surfactant protein D levels in hypertensive patients with Acute Exacerbations of COPD
Olga Shtepa (Dnipropetrovsk, Ukraine), Tetyana Perteve

Monitoring disease progression in severe Alpha1 antitrypsin deficiency
Inês Teixeira Farinha (Maia, Portugal), Alexandra Cunha, Filipa Costa

Ninjin-yoeito ameliorates cigarette smoke-induced skeletal muscle complications in mice
Atsushi Miyamoto (Osaka, Japan), Atsushi Miyamoto, Hideaki Kadotani, Kazuhisa Asai, Naomi Maruyama, Hiroaki Kubo, Atsuko Okamoto, Naoki Ijiri, Kanako Sato, Tetsuya Watanabe, Kazuto Hirata, Tomoya Kawaguchi

Treatment with proteinase inhibitor from Enterolobium contortisiliquum in mice with asthma-COPD
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193. **PD40 sGaw with deep inhalation as alternative for PD20 FEV1**
Lydia Natalia (Amsterdam, Netherlands), Mart Van Der Plas, Paul Bresser

194. **FeNO is not affected by spirometry, IOS or walking in healthy subjects or well controlled asthma patients**
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196. **Correlation of severity of chronic obstructive pulmonary disease with potential biomarkers**
SEEMA SINGH (LUCKNOW, India), Santosh Kumar, S K Verma

197. **The impact of depression in patients with severe asthma (SA) in the Wessex Severe Asthma Cohort (WSAC)**
Laura Wiffen (Portsmouth, United Kingdom), Thomas Brown, Lauren Fox, Thomas Jones, Kerry Gove, Clair Barber, Hitasha Rupani, Scott Hopkins, Anoop Chauhan, Peter Howarth

198. **Non-eosinophilic COPD is associated with severe emphysema assessed by quantitative computed tomography**
Kuan-Yuan Chen (New Taipei City, Taiwan), Hsiao-Yun Kuo, Shu-Chuan Ho, Kang-Yun Lee

199. **Evaluation of the effect of excess body weight on the level of pro-inflammatory cytokines in patients with asthma-COPD overlap.**
Svetlana Faletrova (Ryazan (Ryazan Oblast), Russian Federation), Oleg Uryasev, Eduard Belskikh, Larisa Nikiforova

200. **Time trends in prevalence of symptoms of asthma in Indian children: ISAAC and GAN studies**
Sheetu Singh (Jaipur (Rajasthan), India), Sundeep Salvi, Shally Avasthi, Nishtha Singh, Monica S Barne, Meenu Singh, Sabir Mohammad, Sanjay K Kocher, Sushil K Kabra, Sanjeev Sinha, Alok Ghoshal, Pa Mahesh, Daya K Mangal, Virendra Singh

201. **Differences between early-onset persistent and late-onset asthma: a real life study**
Martina Turrin (CORDENONS, Italy), Simonetta Baraldo, Kim Lokar Oliani, Michele Rizzo, Federico Lionello, Erica Bazzan, Manuel Costo, Marina Saetta

202. **Impulse Oscillometry is a reproducible assessment of airway resistance and reactance in well-controlled asthmatics and healthy controls.**
Lene Moelgaard Pedersen (, Denmark), Nuha Mousa, Maha Mousa, Helle Andersen, Anne-Sofie Bjerrum, Tina Skjold, Hans Jürgen Heinrich Hoffmann, Johannes Schmid

203. **Indoor home allergen load relates to clinical outcomes in COPD: A metagenomics approach**
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204. **Upper Respiratory Symptoms in Patients with Chronic Obstructive Pulmonary Disease**
Nicolai Obling (Kgs. Lyngby, Denmark), Vibeke Backer, John R Hurst, Uffe Bodtgter

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Rodrigo Abensur Athanazio (São Paulo (SP), Brazil), Rafael Stelmach, Martti Antilla, Adelmar Machado, Luisa Karla Arruda, Alcindo Neto, Faradiba Cerpa, Daniela Blanco, Marina Lima, Marcelo Rabahi, Pedro Bianchi, Luisa Furlan, Andre Santa Maria, Flavia Lopes, Angela Souza, Marcio Penha

206. **Application of machine learning algorithms to predict loss of asthma control: A post-hoc analysis of INCONTRO study**
Sofia Necander (Askin, Switzerland), Ana Teixeira, Vaishali Chaudhuri, Mahdi Hashemi, Robert Pálmer, Katarina Korsbø, Carlos Pedrinaci, Ioannis Psallidas

207. **Features of the chemiluminescent activity of neutrophils in chronic obstructive pulmonary disease associated with multiple myeloma**
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Olga Smirnova

208. **Selected blood parameters of inflammation (circulating immune complexes, C1C, C-reactive protein, CRP, neutrophil/lymphocyte ratio and platelet/lymphocyte ratio) in patients with chronic obstructive pulmonary disease (COPD)**
Grzegorz Przybylski (Osielsko, Poland), Marta Pilaczyńska-Cemel, Ryszard Golada, Anita Dąbrowska, Tomasz Wandtke

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| 218 | **Prevalence and characteristics of patients with obstructive sleep apnea (OSA) and chronic obstructive pulmonary disease (COPD): “overlap syndrome (OS)”** | Izolde Bouloukaki (Heraklion (Crete), Greece), Michail Fanaridis, George Stathakis, Charalampos Mermigkis, Nikolaos Tzanakis, Paschalis Steiropoulos, Violeta Moniaki, Eleni Mauroudi, Sophia Schiza |
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| 221 | **COPD GOLD classification in patients with COPD-OSA overlap syndrome** | Athanasios Voulgaris (Thessaloniki, Greece), Nikoletta Paxinou, Evangelia Nena, Toulin Mouemen, Konstantina Chadia, Konstantinos Bonelis, Stavros Anevlavis, Marios Froudarakis, Paschalis Steiropoulos |
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| 223 | **Is Excessive Daytime Sleepiness a predictor of co-Morbidities in Obstructive Sleep Aposea?** | NITHIN KUMAR REDDY R (BANGALORE, India), Krishnaswamy U, Raj R, Venkatnarayan K, Devraj U, Ramchandran P, D Souza Ga |
| 224 | **Role of craniofacial and upper airway profile assessment in pediatric obstructive sleep apnea(OSA)- a prospective case control study from India** | Rahul K. Sharma (New Delhi (Delhi), India), Ankita Goel Sharma, Shibdas Chakrabarti, J C Suri |
Incidence, severity, and predictive risk factors of obstructive sleep apnoea (OSA) among South Indian patients, a retrospective observational study in a general respiratory clinic.
Kesavaperumal Vijayasaratha (Chennai (Tamil Nadu), India), Shakthipriya Nandakumar

Special features of severe obstructive sleep apnea in women: a comparative study
Hana Mrassi (Tunis, Tunisia), Islam Mejri Ep Ajili, Samira Mhamdi, Selsabil Daboussi, Chriraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui

Obstructive sleep apnea risk and quality of life in Vietnamese COPD patients
Khoa Duong (Ho Chi Minh city, Vietnam), Vu Le, Ngoc Tran

Factors associated with OSA in preoperative bariatric patients
Peter Siu Pan Cho (London, United Kingdom), Kieran Palmer, Rebecca A Llyal, Amit S Patel, Kai K Lee

Screening for obesity hypoventilation syndrome in bariatric patients.
Kieran Palmer (London, United Kingdom), Peter S P Cho, Rebecca A Llyal, Amit S Patel, Kai K Lee

Pre-congress content  
Session 43  
00:00 - 23:59

E-poster session: Management of allergy, asthma and COPD

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

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

Chairs: Isabelle Vachier (Montpellier, France), Chair to be confirmed

Establishment of a post-discharge virtual ward to optimise care for COPD patients following admission to hospital.
Maxine Hardinge (Oxford (Oxfordshire), United Kingdom), Joanne Riley, Chris Swindale, Annelise Ovington, Amanda Robinson, Karen Kearley

Roles of PI3k pan-inhibitors and PI3k-d inhibitors in allergic lung inflammation: systematic review and a meta-analysis
Yong Chul Lee (Jeonju, Republic of Korea), Jong Seung Kim, Jae Seok Jeong, Sam Hyun Kwon, So Ri Kim

Type 2 inflammation-related comorbidities among patients with asthma, chronic rhinosinusitis with nasal polyps, and atopic dermatitis
Asif Khan (Chilly-Mazarin, France), Imène Gouia, Siddhesh Kamat, Benjamin Ortiz, Robert Johnson, James Siddall, Mark Small

Effect of Dupilumab on patient-reported breathing and rescue medication use
Jonathan Corren (Los Angeles, United States of America), Mario Castro, Jorge F Maspero, William W Busse, Antonio Valero Santiago, Piotr Kuna, Nadia Daizadeh, Nami Pandit-Abid, Benjamin Ortiz, Asif H Khan, Siddhesh Kamat

Effect of dupilumab on severe exacerbations and lung function in patients with baseline blood eosinophils ≥500 cells/µL
Klaus F. Rabe (Kiel, Germany), Ian D. Pavord, Mario Castro, Nadia Daizadeh, Benjamin Ortiz, Robert Johnson, Yamo Deniz, Paul Rowe

Real-world adherence of subcutaneous (SCIT) and sublingual (SLIT) pollen AIT: A retrospective analysis in Germany
Christian Vogelberg (Dresden, Germany), Bernd Brueggenjuergen, Hartmut Richter, Marek Richter, Marek Jutel

House dust mite sublingual immunotherapy reduces type 2 biomarkers in allergic asthma
Makoto Hoshino (Atami, Japan), Kenta Akitsu, Kengo Kubota, Junichi Ohtawa

The effect of specific Hymenoptera VIT using the ultra-rush method on immunoregulatory properties of T and B lymphocytes, histamine, tryptase and serum cytokine concentrations.
Łukasz Szymanski (Warsaw, Poland), Aleksander Zakrzewski, Martyna Ciepielak, Aleksandra Cios, Weronika Urbanska, Jerzy Kuszewski, Wanda Stankiewicz, Andrzej Chciałowski

Pharmacodynamic effects of nebulised bronchodilator combinations
Ivan Shishimorov (Volgograd, Russian Federation), Olga Magnitskaya, Oxana Fadina, Eleonora Belan, Natalia Maliuzhiniskaia

Patterns of atopy and allergic-respiratory outcomes in older adults
Dinh Bui (Melbourne (VIC), Australia), Caroline Lodge, Jenny Perret, Adrian Lowe, Michael Abramson, Garun Hamilton, Bircan Erbas, Haydn Walters, Shyamali Dharmage

Clinical and serological features in Allergic bronchopulmonary aspergillosis.
Prasanth P (Amritsar (Punjab), India)
Allergy in patients with lymphangioleiomyomatosis
Elżbieta Radzikowska (Warszawa, Poland), Joanna Nowacka-Ejsmont, Joanna Miłkowska-Dymanowska, Elżbieta Wiatr, Katarzyna Blasinska, Adriana Rozy, Miquel Angel Pujana

Allergy testing in asthmatics and severe asthmatics: habits among respiratory physicians in Belgium
Bram Flahou (Waasmunster, Belgium), Jan Van Schoor, Stefianna Vancayzeele, Sandra Gurdain

Impact of subcutaneous allergoid AIT on patients with allergic rhinitis and/or asthma: A retrospective real-life, long-term cohort analysis
Christian Vogelberg (Dresden, Germany), Bernd Brueggenjuergen, Hartmut Richter, Marek Jutel

The impact of obesity in patients with severe asthma in the Wessex Severe Asthma Cohort (WSAC)
Lauren Fox (Southampton, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Anoop Chauhan, Peter Howarth

Allergy and respiratory infections in Nigerian university athletes: a cross-sectional study
Olayemi Fehintola Awopeju (Ile-Ife (Osun State), Nigeria), Adenike Arawomo, Gregory Efosa Erhabor

Features of apoptosis, formation of membrane-released microparticles in case of lymphocyte damage in young patients with bronchial asthma, depending on body mass index
Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Natalia Gordeeva, Dmitriy Anikin

Latent classes of adults with persistent asthma: data from the multicentre INSPIRER studies
Rita Amaral (Porto, Portugal), Cristina Jácome, Rute Almeida, Ana Pereira, Cláudia Chaves Loureiro, Cristina Lopes, Ana Mendes, José Carlos Cidraís-Rodrigues, Joana Carvalho, Ana Arrobas, Ana Todo Bom, Carmelita Ribeiro, João Azvedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo-Bom, Alberto Costa, Carlos Lozoya, Natacha Santos, Diana Silva, Luis Taborda-Barata, Rodrigo Rodrigues-Alves, Ana Sofia Moreira, Cláudia Sofia Pinto, Pedro Morais Silva, Carlos Alves, Raquel Câmara, Diana Bordalo, Ricardo Fernandes, Rosário Ferreira, José Ferraz De Oliveira, Fernando Menezes, Ricardo Gomes, Maria José Cálix, João Cardoso, Carlos Nunes, Rita Câmara, José Alberto Ferreira, Manuel Ferreira-Magalhães, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Dario Antolín-Amérgo, Belén De La Hoz Caballer, Alicia Barra Castro, David Gonzalez-De-Olano, João A. Fonseca

Effects of MACVIA-ARIA Sentinel Network for Allergic Rhinitis (MASK-Air) Mobile Phone Application on Asthma Control in Patients with Asthma
Muge Gencer (Manisa, Turkey), Muge Gencer, Yavuz Havlucu, Deniz Kızılırmak, Arzu Yorgancıoğlu, Bilun Gemicioğlu

Pre-congress content
Session 44 00:00 - 23:59
E-poster session: Physical activity and chronic lung disease

Disease(s) : Airway diseases, Thoracic oncology, Interstitial lung disease
Method(s) : Pulmonary rehabilitation, General respiratory patient care, Pulmonary function testing, Physiology, Cell and molecular biology, Surgery, Transplantation

Chairs : Elena Gimeno-Santos (Barcelona, Spain), Karina Couto Furlanetto (Londrina (PR), Brazil)

"Can do" versus "do do" in patients with asthma
Steffi Lemmens-Janssen (Leiden, Netherlands), Martijn Spruit, Jeanine Antons, Remco Djamin, Jannie Abbink, Hanneke Van Helvoort, Alex Van 'T Hul

Clinical control, quality of life, physical activity levels, and psychosocial factors according to illness perception in subjects with asthma: a cluster analysis
Fabiana Kim (São Paulo, Brazil), Simone Silva, Patrícia Freitas, Natália Passos, Rafaela Xavier, Rafael Stelmach, Regina Pinto, Celso Carvalho

Perceptions of a six-week behaviour change intervention to reduce sedentary behaviour in people with chronic obstructive pulmonary disease: a qualitative study
Sonia Cheng (Sydney (NSW), Australia), Catherine Guan, Sarah Dennis, Jennifer Alison, Emmanuel Stamatakis, Zoe Mcekeough

Can a six-week behaviour change intervention reduce sedentary behaviour in people with chronic obstructive pulmonary disease? A randomised controlled trial
Sonia Cheng (Sydney (NSW), Australia), Jennifer Alison, Sarah Dennis, Emmanuel Stamatakis, Renae Mcnamara, Lissa Spencer, Zoe Mcekeough

Reliability and validity of the international physical activity questionnaire short-form (IPAQ-sf) in COPD
Sofia Flora (Leiria, Portugal), Nádia Hipólito, Liliana Santos, Filipa Januário, Sónia Silva, Carla Valente, Lília Andrade, Fátima Rodrigues, Alda Marques, Joana Cruz
**Association between physical activity in daily life and exercise capacity in COPD: do total volume and/or isolated intensities play a role?**

**The importance of dynamic submaximal endurance capacity of the quadriceps muscle to objectively measured physical activity in people with COPD**
Erik Frykholm (Umeå, Sweden)

**Association among daily physical activity level and ABCD groups of COPD**
Katerina Neumannova (Olomouc, Czech Republic), Tamara Michalickova, Vladimir Koblizek, Eva Volakova, Jaromir Zatloukal, Marek Plutinsky, Michal Svoboda, Zuzana Liptakova, Jana Kocianova, Libor Fila, Gustav Ondrejka, Tomas Dvorak, Pavлина Musilova, Patricie Popelkova

**Physical activity levels in women with lymphangioleiomyomatosis**
Douglas Silva Queiroz (São Paulo, Brazil), Martina R Oliveira, Alexandre F Amaral, Cibele C B Marques Da Silva, Bruno G Baldi, João M Salge, Carlos R R Carvalho, Celso R F Carvalho

**Physical activity, functional capacity, and anaerobic power in cystic fibrosis with and without impaired glucose tolerance**
Cemile Bozdemir Ozel (Eskisehir, Turkey), Elif Kocaaga, Deniz Inal-Ince, Dilber Ademhan-Tural, Ebru Calik-Kutukcu, Naciye Vardar-Yaglı, Melda Saglam, Deniz Dogru, Ayfer Alikasifoglu, Nagehan Emiralioglu

**Association between physical activity and risk of hospitalisation in bronchiectasis**
Victoria Alcaraz Serrano (Barcelona, Spain), Elena Gimeno-Santos, Giulia Scioscia, Albert Gabarrús, Adrià Navarro, Beatriz Herrero-Cortina, Rosanel Amaro, Laia Fernández, Patricia Oscanoa, Antoni Torres

**Functional impairment in lung cancer survivors is related to physical activity**
Alejandro Heredia Ciuró (Granada, Spain), Andrés Calvache Mateo, Esther Prados Román, Janet Rodriguez Torres, Florencio Quero Valenzuela, Marie Carmen Valenza

**Device-based assessment of physical activity after lung cancer surgery**
Samantha Harrison (Middlesbrough (Stockton-on-Tees), United Kingdom), Alan Batterham, Sasha Stamenkovic, Joel Dunning

**Comparison of the effects of video-assisted thoracoscopic surgery or thoracotomy on pulmonary functions physical activity and exercise capacity in lung cancer patients**
Ece Baytok (Ankara, Turkey), Zeliha Çelik, Merve Şatır Türk, Ali Çelik, Ismail Cüneyt Kurul, Meral Boşnak Güçlü

**Compliance to accelerometry before treatment for inoperable lung cancer**
Vinicius Cavalheri (Perth (WA), Australia), Chelsea Milner, Joanne Mcveigh, Carolyn Peddle-Mcintyre, David Manners, Rajesh Thomas, Jeanie Leong, Samantha Bowyer, Kirsten Mooney, Siobhan Dormer, Leon Straker, Daniel Galvão

**Relationship among physical activity, pulmonary functions and physical functions in candidates of allogeneic hematopoietic stem cell transplantation.**
Gülşah Bargı (İZMİR, Turkey), Meral Boşnak Güçlü

**Physically active lifestyle in elderly improves upper airways mucosal immune response**
Juliana Santos (Salvador (BA), Brazil), Telma Cordeiro, Ewín Barbosa, Vitória Paixão, Jonatas Amaral, Roberta Foster, Adriane Sperandio, Tamaris Roseira, Marcelo Rossi, Fernanda Monteiro, Gislene Amirato, Carlos Santos, Mauro Vaisberg, Rodolfo Vieira, André Bachi

**Comparison of two walking strategies to promote physical activity in sedentary adults.**
Nicolás Sepúlveda Cáceres (Santiago, Chile), Matias Otto-Yañez, Rodrigo Torres-Castro, Nelson Romero, Carola Jara Fuentes, Francisca Gonzalez Bossi, Sebastián Miranda, Luis Vasconcello

**Identifying heart rate threshold for moderate to vigorous physical activity in children and young people wearing activity trackers**
Helen Douglas (London, United Kingdom), Emma Raywood, Kunal Kapoor, Nicky Murray, Rachel O'Connor, Olga Liakhovich, Tempest Van Schaik, Bianca Furtuna, Nicole Filipow, Eleanor Main

**Validity and usability of physical activity devices to self-monitor daily steps**
Catherine Granger (Parkville (VIC), Australia), Nina Leggett, Melanie Tomkins, Selina Parry

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**Pre-congress content**

**Session 45 00:00 – 23:59**

E-poster session: Exercise tolerance and functional status across respiratory diseases
### Disease(s):

- Airway diseases
- Interstitial lung diseases
- Sleep and breathing disorders
- Thoracic oncology
- Respiratory critical care

### Method(s):

- Transplantation
- Pulmonary rehabilitation
- Physiology
- Epidemiology
- General respiratory patient care
- Respiratory intensive care
- Public health

### Chairs:

- Fabio Pitta (Londrina, Brazil), Inga Jarosch (Schönau am Königssee, Germany)

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**Pulmonary vascular diseases**  
**Airway diseases** |
| **Method(s):** | **Respiratory intensive care**  
**Imaging**  
**Epidemiology**  
**Transplantation**  
**Pulmonary function testing**  
**General respiratory**  
**Physiology**  
**Pulmonary rehabilitation** |
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| **288** | LSC - 2020 - GCN2 signalling is dysregulated in pulmonary fibrosis  
*Diana Santos Ribeiro (Auderghem, Belgium)* |
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*Athiththan Yogeswaran (Giessen, Germany), Marlene Faber, Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall* |
| **290** | Mild parenchymal lung disease and/or low diffusion capacity impacts survival and treatment response in patients diagnosed with idiopathic pulmonary arterial hypertension  
*Robert A. Lewis (Sheffield (South Yorkshire), United Kingdom), A A Roger Thompson, Catherine G Billings, Athanasios Charalampopoulos, Charlie Elliot, Neil Hamilton, Catherine Hill, Judith Hurdman, Smita Rajaram, Ian Sabroe, Andy J Swift, David G Kiely, Robin Condliffe* |
| **291** | Pulmonary hypertension is a negative prognostic factor of long term survival in patients with idiopathic pulmonary fibrosis after lung transplantation  
*Adir Yochai (Haifa, Israel), Moshe Shay Amor, Sonia Schnee, Dror Rosengarten, Yael Shostak, Mordechai Reuven Kramer* |
| **292** | Treatment of severe pulmonary hypertension secondary to chronic lung disease: A multicentre study.  
*Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Aurtentxte Pérez, Maria Lorena Coronel, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz, Maria Teresa Velázquez Martin, Carlos Andrés Quezada Loaiza, Pilar Escribano Subías* |
| **293** | Impact of borderline (BL) pulmonary hypertension (PH) in chronic lung diseases (CLD).  
*Luciella Picari (Barcelona, Spain), Patrizio Vitulo, Stephen John Wort, Federica Meloni, Alessandro Bertani, Isabel Blanco, Laura Claire Price, Elena Salvaterra, Marta Beretta, Virginia Luz Pérez Rodriguez, Colm Mc Cabe, Elena Cattaneo, Adriana Callari, Manuel Lopez Meseguer, Laura Scelsi, Diego A Rodriguez, Joan Albert Barberà, Lavinia Martinò, Fabio Tuzzolino* |
| **294** | Exercise hemodynamics in patients with COPD  
*Teresa Sassmann (Graz, Austria), Philipp Douschan, Vasile Foris, Alexander Avian, Piet-Lennart Rosenstock, Katarina Zeder, Gerhard Bachmaier, Horst Olschewski, Gabor Kovacs* |
| **295** | Resistive and dynamic exercise stress testing in COPD and IPF candidates to lung transplantation: role of the pulmonary arterial stiffness  
*Enric Domingo (, Spain), Juan Grignola, Carlos Bravo, Manuel López Meseguer, Pedro Suasnava, Antonio Roman* |
| **296** | Different response to pulmonary vasoactive therapy in pulmonary hypertension due to lung diseases (group III PH) Report from a pneumology based PH center  
*Frank Reichenberger (Munich, Germany), Katharina Heinig-Menhard, Cosmina Stoleriu, Margot Neiswirth, Jürgen Behr, Ralf Göres, Wolfgang Geserich, Edith Silbernagel* |
Identifying pulmonary hypertension in newly recognized interstitial lung diseases - a role of new scoring system
Małgorzata Sobiecka (Warszawa, Poland), Katarzyna Lewandowska, Jarosław Kober, Monika Franczuk, Agnieszka Skoczyńska, Witold Tomkowski, Jan Kus, Monika Szturmowicz

Different definitions of pulmonary hypertension in interstitial lung disease: a prognostic evaluation.
Tomonori Sato (Seto, Japan), Taiki Furukawa, Ryo Teramachi, Yasuhiko Yamano, Toshiki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Yasuhiro Kondoh

Pulmonary hypertension associated with definitive and probable usual interstitial pneumonia
Galina Nekludova (Moscow, Russian Federation), Alexander Cherniak, Zamira Merhoeva, Natalia Tsareva, Zhanna Naumenko, Sergey Avdeev

Phenotype of patients with severe pulmonary hypertension secondary to chronic obstructive pulmonary disease: A multicentre study.
Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Aurtenetxe Pérez, Maria Lorena Coronel, Carmen Pérez-Olivares Delgado, María José Cristo Rooper, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz, Carlos Andrés Quezada Loaiza, Pilar Escalibano Subías

The association of diuretics treatment with hospitalization rates of patients with chronic obstructive pulmonary disease and pulmonary hypertension: a population-based study
Elena Jureviciene (Vilnius, Lithuania), Roma Puronaite, Vaida Sudmantai, Edvardas Danila

Association of FVC/DLCO with pulmonary hypertension risk and interstitial disease in systemic sclerosis patients
Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), John Martínez, Florencia Cabrera, Noelia Mastandrea, Milerna Pertuz, Zulílie Marengo, M. José López Meiller, Ozlem Ozdemir Kumbasar, Cansin Tulunay Kaya, Tamer Sayin

Response to PAH specific therapy with hospitalization rates of patients with chronic obstructive pulmonary disease and pulmonary hypertension
Serhat Eről (Ankara, Turkey), Asli Bostanoglu, Ozlem Isik, Kubra Turkel, Zeynep Pınar Oner, Ozlem Ozdemir Kumbasar, Cansin Tulunay Kaya, Tamer Sayın

Sarcoidosis-associated Pulmonary Hypertension: A London Cohort
Laura C Price (University of London, United Kingdom), Vasilis Kouranos, Konstantinos Dimopoulos, ColmMcCabe, Aleksander Kempny, Laura Price, Giulia Costola, Carl Harries, Elizabeth Renzoni, Philip Molyneaux, Maria Kokosi, Toby Maher, Felix Chua, Peter George, Atholl U Wells, S John Wort

Effect of Pulmonary Hypertension in exercise tolerance in patients with Chronic Obstructive Pulmonary Disease: A systematic review and meta-analysis
Rodrigo Torres-Castro (Santiago, Chile), Elena Gimeno-Santos, Jordi Vilaró, Marta Roqué I Figuls, Jorge Moisés, Joan Albert Barberá, Isabel Blanco

Pre-congress content

Session 47 00:00 - 23:59

E-poster session: New insight into the immunology of asthma and COPD

Disease(s): Airway diseases

Method(s): Cell and molecular biology  Physiology  Pulmonary function testing

Chairs: Philip Hansbro (Sydney, Australia), Cecilia K. Andersson (London, United Kingdom)

Late Breaking Abstract - The Role of the chemokine receptor CCR3 in House Dust Mite (HDM) induced experimental asthma
Susanne Krämer (Erlangen, Germany), Nina Li, Zuqin Yang, Julia Koelle, Carol Immanuel Geppert, Ralf J. Rieker, Gerard Graham, Susetta Finotto

Late Breaking Abstract - Link between IL-22 and IL-10, IL-13, and severity of symptoms in patients with allergic airway diseases caused by house dust mite
Laura Tamasauskiene (Kauno raj., Lithuania), Vilte Marija Gintauskiene, Edita Gasinieni, Brigitia Sitkauskiene

The role of innate lymphoid cells (ILCs) in a murine model of irritant-induced asthma.
Utako Fujii (Montreal, Canada), Yumiko Ishii, Emily Nakada, Niuwa Khazaei, Soroor Farahnak, Toby Mcgovern, James Martin

Less eosinophilic inflammation and goblet cell metaplasia in IL-33-treated, diet-induced obese mice
Atsushi Kurokawa (Tokyo, Japan), Mitsuko Kondo, Sigeru Ashino, Mayoko Tsuji, Mami Orimo, Tomohiro Akaba, Ken Arimura, Kiyoshi Takeyama, Etsuko Tagaya
Deficiency of CARS2, a principal cysteine persulfide synthase, aggravated house dust mite-induced allergic inflammation in a mouse model of asthma.

Yusaku Sasaki (Sendai, Japan), Mituhiro Yamada, Tadahisa Numakura, Tomoaki Ida, Masanobu Morita, Naoya Fujino, Tomohiro Ichikawa, Hirohito Sano, Syun Yamanaka, Yuku Okuyama, Naoto Ishii, Takaaki Akaike, Hisatoshi Sugiura, Masakazu Ichinose

The effects of Rosae Multiflorae fructus extract on allergic rhinitis: animal experiments and clinical trials

Hee Soon Shin

Gut microbial modulation attenuates emphysema development by suppressing inflammation and apoptosis

Se Hee Lee (Seoul, Republic of Korea), Yoon Ok Jang, Jong Jin Choi, Yeon-Mok Oh, Sei Won Lee

BMI is reduced in COPD.

Xin Yao (Nanjing (Jiangsu), China), Wu, Ian Adock

Immunotherapeutic strategy with mesenchymal stem cells modulating inflammation in an experimental model of COPD.

Cristiano Rodrigo De Alvarenga Nascimento (Juiz De Fora (MG), Brazil), Auriléia Aparecida De Brito Léia, Tawany Gonçalves Santos, Karine Zanela Herculano, Stephanie Soares, Leticia Lopes Guimarães, Kristianne Porta Santos Fernandes, Renata Kelly Da Palma, Ana Paula Ligaério-Oliveira

1,25-dihydroxyvitamin D3 effect on corticosteroid sensitivity in obese asthmatic patients before and after bariatric surgery

Marina Bantulá Fonts (Vilassar de Dalt, Spain), Jordi Roca-Ferrer, César Picado Vallés, Valeria Tubita, Irina Bobolea, Antonio Valero, Joaquim Mullol, Joan Bartra, Eymhar Arismendi

Lipids regulate the dynamics of early allergic inflammation towards grass pollen

Nestor Gonzalez Roldan (Borstel, Germany), Sylvia Düpow, Regina Engel, Katarzyna Duda

Effects of dehydrodieugenol on neuroinflammation and behavior changes in mice with mixed granulocytic chronic airway inflammation

Carla Prado (Santos, Brazil), Pamela Maria Araujo Morera, Jose Ivo Araujo Beserra-Filho, Beatriz Soares, Vitor Fonci, Maria Aparecida Oliveira, Rafael Herling Lambertucci, Nathalia Montouro Pinheiro, Wothan Tavares-De-Lima, João Henrique G Lago, Alessandra Mussi Ribeiro

Rhinovirus-induced cytokine production of circulating leukocytes is reduced in severe asthma

Kaschin Jamal Jameel (Bochum, Germany), Sarah Yanik, Eike Bülthoff, Faisal Yusuf, Birte Struck, Simon Rohde, Kai Pfeifer, Julianne Kronseim, Andrea Koch, Matthias Tenbusch, Jürgen Knobloch

Comparison of blood ILC2 cell numbers, phenotypes and proliferation between atopic severe asthma participants, healthy controls with atopy and non-atopic healthy controls

Bilal Malik (Newcastle, Australia), Nathan Bartlett, Rebecca Mckerrow, John Harrington, John W Upham, Peter A.B Wark

CD6 is highly expressed in fatal asthma patients and may modulate bronchomotor tone

Cynthia Kozioł-White (New Brunswick, United States of America), Gaoyuan Cao, Vishal Parikh, Brian Deeney, Joshua Vieth, Cherie Ng, Jeanette Ampudia, Stephen Connelly, Jana Badrani, Taylor Doherty, Reynold Panettieri

Local lung house dust mite (HDM) challenges induce cell necrosis in mouse experimental asthma

Juan-José Nieto-Fontarigo (Santiago De Compostela, Spain), Samuel Corps, Sangeetha Ramu, Hamid Akbarshahi, Asger Serrild, Celeste Porsbjerg, Uller Lena

Pre-congress content Session 48 00:00 - 23:59

E-poster session: Chronic lung diseases: novel methods, diagnostics and biomarkers

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

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

Chairs: Olivier Burgy (Dijon, France), Angelica TIOTIU (Nancy, France)

Late Breaking Abstract - Early exploratory use of omic approaches to assess metabolite changes in COPD

Tina Kramarić (Aberystwyth, United Kingdom), Sarah Thomas, Katie Love, Ian Bond, David Rooke, Luis Mur, Keir Lewis

Late Breaking Abstract - Proteomic changes in respiratory tract lining fluid associated with smoking

Spela Kokelj (Göteborg, Sweden), Jörgen Östling, Benjamin Georgi, Henric K. Olsson, Anna-Carin Olin

Sputum proteomics identifies distinct endotypes of exacerbations in bronchiectasis

Jeffrey T.-J. Huang (Dundee (Angus), United Kingdom), Yonghua Gao, Alun Barton, Hollian Richardson, Hani Leyah, Heather Barclay, Elena Kuzmanova, Holly Keir, Alison Dicker, James Chalmers
How insignificant are genetic variants of unknown significance in Primary Ciliary Dyskinesia?
Reena Bhatt (London, United Kingdom), Siobhan B Carr, Claire Hogg

Quantification of circulating alpha-1-antitrypsin polymers in dried blood spots
Ilaria Ferrarotti (Pavia (PV), Italy), Stefania Ottaviani, Mattia Laffranchi, Valentina Barzon, Alice Maria Balderacchi, Guido Levi, Angelo Guido Corsico, Luciano Corda, Federica Benini, Anna Maria Fra

Human epididymis protein 4 (HE4): a potential biomarker for IPF
Sung Jo (Waltham, United States of America), Julia Winkler, Andrew Sullivan, Lia Luus, Erica Herzog, Adrian Ray

LSC - 2020 - Mitochondrial dysfunction induce immunoproteasome and MHC class I responses in lung aging
Xinyuan Wang (Munich, Germany)

An expanding protocol to validate nasospheroids as a functional assay to study airway CFTR-fluid transport
Maite Calucho (Barcelona, Spain), Silvia Gartner, Raquel García-Pérez, Llorenç Badiella, Sandra Cobo, Sandra Rovira, Laura Garriga, Paula Fernández, Eduardo Tizzano

Targeting STAT3 pathway signalling in EGFR TKI resistant NSCLC
Kathy Gately (Dublin, Ireland), Michelle Simone Clement, Boe Sandahl Sorensen, Sinead Cuffe, Stephen Finn

Co-expression modules construction by WGCNA and identification of susceptible genes of chronic obstructive pulmonary disease with lung adenocarcinomas
Lei Chen (Chengdu (Sichuan), China), Ping Li, Mei Yang, Fangying Chen, Lin Liu

Pre-congress content Session 49 00:00 - 23:59
E-poster session: Novel findings in intensive care unit medicine: part 2
Disease(s): Respiratory critical care Interstitial lung diseases Airway diseases Thoracic oncology Sleep and breathing disorders
Method(s): Imaging Respiratory intensive care General respiratory patient care Pulmonary rehabilitation Physiology Pulmonary function testing

Late Breaking Abstract - Lung involvement is clue for recognizing severe dengue-A retrospective study
Yunfeng Shi (Guangzhou, China), Yunfeng Shi, Xiaohan Shi, Jimmei Luo, Junhui Ba, Weiqiang Gan, Yuefei Guo, Benquan Wu

Late Breaking Abstract - Multidisciplinary medical team in severe COVID-19 treatment
Jianrong Liu (Guangdong, China), Haijin Lyu, Xiaofeng Yuan, Yuling An, Xiaomeng Yi, Xuxia Wei, Huimin Yi, Yang Yang

Late Breaking Abstract - Early ICU physiotherapy on SARS-CoV-2 patients: A Spanish experience case series
Camilo Corbelini (Rivoli (TO), Italy), Immaculada Vinuesa, Eleuterio A. Sánchez Romero, Gonzalo Ballesteros Reviriego, Pascual Bernal-Planas, Jorge Hugo Villafañe

Late Breaking Abstract - Monitoring inspiratory effort with a bioimpedance based wireless chest patch
Alessandro C. Rossi (Maastricht, Netherlands), Jantina C. De Vries, Sofia Mayer, Hartmut Schneider

Late Breaking Abstract - Aerodynamic SARS-CoV-2 transport in non-invasive ventilatory support methods: a passive tracer study
Rutger Hebbink (Enschede, Netherlands), Judith Elshof, Steven Vanrooij, Walter Lette, Kees Venner, Marieke Duiverman, Rob Hagmeijer

Evaluation of aerosol delivery in a simulated spontaneously breathing tracheostomy mask patient
Elena Fernandez Fernandez (Galway, Ireland), Grant Olsson, Mary Joyce, Gavin Bennett, Ronan Macloughlin

Regional heterogeneity of lung volumes in response to mechanical ventilation
Melissa Preissner (Clayton, Australia), Seiha Yen, Ellen Bennett, Andreas Fours, Peter Dargaville, Graeme Zosky, Stephen Dubsky

Flow-controlled ventilation (FCV) improves regional ventilation in obese patients with diabetes type 1 and 2
Kostiantyn Dmytriyev (Vinnitsya, Ukraine), Dmytro Dmytriyev, Kateryna Dmytriyeva

Gabapentin as add-on to fentanyl and midazolam in patients receiving mechanical ventilation: a randomized, blinded study
Bahador Bagheri (Tehran, Islamic Republic of Iran), Sara Salarian, Bahar Taherkhani

Prognostic value of Nutric score in critically ill patients with lung cancer
Andrian Charipidou (Athens, Greece), Effrosyni Filiou, Nikoletta Rovina, Dimitrios Vassos, Mattheios Katsaras, Stamatios Tsipilis, Dimitra Grapsa, Petros Bakakos, Konstantinos Syrigos
Diagnostic yield of bronchoalveolar lavage in adult Intensive Care patients, and influence on management
Claire Pickering (Headington, United Kingdom), Ipsita Sinha, Elaine Armstrong, Lucinda Barrett

Implementing an evidence based protocol in ICU: Physiotherapists' perceptions
Susan Hanekom (Stellenbosch, South Africa), Jacques Maritz, Farhana Karachi

What HFNC indication are we doing in RICU?
Antoni Marín Muñiz (Badalona (Barcelona), Spain), Irene Aldás Criado, Blanca Urrutia Royo, Carlos Folgado, Maria Sol Prats Bradaji, Antoni Rosell Gratacós, Jorge Abad Capa

Transcranial direct current stimulation and cough effectiveness in SCI patients: case report
Priscila Carvalho (São Paulo, Brazil), Adriana Sayuri Hirota, Guadalupe Nery Sant'Anna, Juliana Barbosa Goulardins, Lucas Macedo Santos, Thabata Caetano, Clara Hitkari Ito, Caroline Gomes Môl, Rita Pavione Rodrigues, Abrahão Fontes Baptista, Clarice Tanaka

Pro-adrenomedullin is a predictive marker for all-cause mortality in stable COPD: An analysis of the COSYCONET study
Sebastian Fähndrich (Freiburg, Germany), Christian Herr, Henrik Watz, Benjamin Waschki, Johanna Classen, Julia Demandt, Franziska C Trudzinski, Albert Omlor, Frederik Seiler, Tobias Welte, Hans-Ulrich Kauczor, Rudolf A Jörres, Claus Vogelmeier, Robert Bals

Effectiveness of high flow oxygen therapy (HFNC) in hypercapnic respiratory failure
Antonio Di Sorbo (Benevento, Italy), Mariano Mazza, Assunta Micco, Angelo Romano, Gaetano Beatrice, Mario Del Donno

The diagnostic cut off value of Lung Ultrasound Score to differentiate Hospital Acquired/Ventilator Associated Pneumonia and Hospital Acquired/Ventilator Associated Tracheobronchitis
Ezgi Özyilmaz (Adana, Turkey), Sinem Bayrakci, Ozlem Kuscu, Nazife Balci Saygili, Aslihan Candevir, Pinar Etiz, Ozlem Goruroglu Ozturk, Emre Karakoc

A cute exacerbations of interstitial lung diseases: experience of 6 years from a portuguese hospital center
Eduarda Salomé Soares Seixas (Lourosa, Portugal), Pedro Gonçalo Ferreira

The effect of nutritional risk on mortality in respiratory ICU patients
Nazife Balci Saygili (Adana, Turkey), Havva Alnikizil, Sinem Bayrakci, Nazire Ates, Halil Capar, Ezgi Özyilmaz

The effect of oxygen on the PaO2/FiO2-ratio and shunt fraction in patients on mechanical ventilation: a physiological study
Heder de Vries (Amsterdam, Netherlands), Soephie Coenen, Frouke Kingma, Leo Heunks, Angelique De Man

E-poster session: Clinical monitoring and new therapies for cystic fibrosis

Method(s): General respiratory patient care Public health Pulmonary rehabilitation Imaging Physiology Pulmonary function testing Epidemiology Cell and molecular biology

Electrical impedance tomography as a clinical monitoring tool in patients with cystic fibrosis
Anna Folino (Torino (TO), Italy), Sheila Beux, Laura Barrocu, Irene Esposito, Benedetta Crida, Roberta Cotti, Lorenzo Appendini, Elisabetta Bignamini

Electronic nose (e-nose) analysis of exhaled volatile organic compounds (VOCs) distinguishes pediatric patients (pts) with Cystic fibrosis (CF) from healthy controls (HC) and depicts disease status
Francesca Lucca (Verona, Italy), Sonia Volpi, Laura Tenero, Michele Piazza, Marco Sandri, Marco Cipolli, Giorgio Piacentini

Lung Clearance Index (LCI) derived from N2-Multiple Breath Washout (MBW) depicts worsening in airways colonization in pediatric Cystic Fibrosis (CF) patients (pts)
Francesca Lucca (Verona, Italy), Sonia Volpi, Antonella Borruso, Laura Menin, Emily Pintani, Marco Cipolli

Shedding light into the black box of infant multiple-breath washout
Marc-Alexander Oestreicher (Bern, Switzerland), Florian Wyler, Philipp Latzin, Kathryn Ramsey

Multicenter feasibility of lung clearance index in preschool children with cystic fibrosis and other lung diseases
Mirjam Stahl (Berlin, Germany), Cornelia Joachim, Tatjana Uselmann, Yin Yu, Ines Kirsch, Christiane Berger, Cornelia Stolpe, Rebecca Minso, Isa Rudolf, Nadine Alleis, Lena Libochick, Dunja Tennhardt, Alena Steinmetz, Xenia Bovermann, Jobst Röhmel, Klaudia Unorji-Frank, Friederike Dörfler, Claudia Rückes-Nilges, Bianca Von Stoutz, Lutz Naehrlich, Matthias Kopp, Anna-Maria Dittrich, Olaf Sommerburg, Marcus Mall
Pre-congress content  Session 51  00:00 - 23:59

E-poster session: Home non-invasive ventilation: (long-term) effects and prognosis

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

**Method(s):** General respiratory patient care  Pulmonary function testing  Respiratory intensive care  Pulmonary rehabilitation  Endoscopy and interventional pulmonology  Physiology  Public health

**Chairs:** Stephanie K. Mansell (Guildford (Surrey), United Kingdom), María Paola Arellano-Maric (Cologne, Germany)

**ERS-Survey R**estrictive disorders IN l**ong term home non-invasive VENTilation(REINVENT)
Paola Pierucci (Bari, Italy), Claudia Crimi, Annalisa Carlucci, Antoine Cuvelier, Jean Paul Janssens, Manuel Lujan, Peter-John Ijkstra, Windish Wolfram, Giovanna Elisiana Carpagnano, Onofrio Resta, Scala Raffaele
371 Real life effect of Home Non-Invasive Ventilation (NIV) following acute hypercapnic respiratory failure (AHRF) on healthcare resource utilisation
Richard Glover (Birmingham (West Midlands), United Kingdom), Alain Al Helou, Pearlene Antoine-Pitterson, Alice Robinson, Bethany Jones, Julie Lloyd, Iyad Ismail, Rahul Mukherjee

372 Analysis of Pneumothorax over 10 years in Non-invasive Ventilator User with Duchenne Muscular Dystrophy
Han Éol Cho (Seoul, Republic of Korea), Seong-Woong Kang, Won Ah Choi, Jang Woo Lee, Justin Byun, Myungsang Kim

373 Non-invasive ventilation in the very old - what to expect?
Leonor Furtado Almeida Cunha (Porto, Portugal), Maria Jacob, Mafalda Van Zeller, Tiago Pinto, Miguel Gonçalves, Marta Drummond

374 Outcome after surgical procedures in adult home ventilated patients at Ghent University Hospital. A registry study.
Eric Derom (Ghent, Belgium), Laurens Heyman, Pieter Depuydt, Luc De Baerdemaeker, Guy F. Joos

375 Physiologic and lung function outcomes of home mechanical ventilation in chronic hypercapnic COPD patients
Cláudia Freitas (Villa Nova de Gaia, Portugal), Mariana Serino, David Araújo, Tiago Pinto, Miguel Gonçalves, Mafalda Van Zeller, Marta Drummond

376 The impact of PAP treatment in OHS
Daniela Dantas Barreto Rodrigues (Barcelos, Portugal), Ana Luisa Vieira, Filipa Aguiar, Maria João Araújo, Diana Pimenta, Lurdes Ferreira

377 Exacerbations between COPD patients with and without comorbid bronchiectasis treated with noninvasive mechanical ventilation- are there differences?
Mariana Serino (Braga, Portugal), Cláudia Freitas, Mafalda Van Zeller, Tiago Pinto, Patricia Lourenço, Miguel Gonçalves, Marta Drummond

378 Long term mechanical ventilation at home in developing country - two decades of experience
Mihail Basa (Belgrade, Republic of Serbia), Predrag Minic, Aleksandar Sovtic, Milan Rodic

379 Is baseline type 2 respiratory polygraphy (T2RP) useful to manage patients established on home non-invasive ventilation (NIV)?
Maxime Patout (Mont-Saint Aignan, France), Gregoire Joly, Edouard Dantoing, Gwenaelle Maclaud, Elise Godeau, Kinan El Hussein, Samuel Dolidon, Diane Gervereau, Julien Pierchon, Elodie Lhuillier, Antoine Cuvelier

380 Relationship between renal correction with chronic respiratory acidosis and prognosis in patients with chronic respiratory failure
Tomomasa Tsuboi (Joyo, Japan), Kensuke Sumi, Atsuo Sato, Takefumi Saito, Shohei Takata, Tetsuro Ohdaira, Tetsuji Kawamura, Toru Yamanaka, Masahiro Abe

381 The effect of non-invasive ventilation on the upper airway in Motor Neurone Disease
Danielle Worsley (Bournemouth (Dorset), United Kingdom), Denise Gibson, Zoe Sherlock

382 Mouthpiece ventilation in stable COPD (Cases description)
Lucia Méndez González (Santa Maria da Feira, Portugal), Cristina Alves, Susana Pereira, Iolanda Mota

383 Long term outcomes of home non-invasive ventilation (NIV) in patients with chronic hypercapnic respiratory failure (CHRF) due to kyphoscoliosis.
Marcus Sim (Singapore, Singapore), Anthony Yee, Thun How Ong, Leong Chai Leow

384 Impact of bronchiectasis in outcomes of COPD patients with home mechanical ventilation
Eduarda M. Tinoco (Porto, Portugal), Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

385 Morbimortality of patients treated with noninvasive mechanical ventilation
Mafalda Teixeira (Amadora, Portugal), Mónica Lopes, Frederico Batista, Ana Furtado

386 Efficiency, acceptance and tolerance of long term non invasive ventilation (NIV) in chronic respiratory failure (CRF)
Aissa Sana (Sousse, Tunisia), Ben Aicha Ikhlas, Benzarti Wafa, Onrane Asma, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Benzarti Mohamed, Gargouri Imen

387 Compliance with home noninvasive ventilation: is disease a relevant factor?
Marta Sousa De Sá Marques (Vila Nova de Gaia, Portugal), Ana Fonseca, Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

388 Prolonged home mechanical ventilation in advanced pulmonary disease: clinical impact and survival
Margarida V. Matias (Ajuda, Portugal), Tiago C. Pinto, Catarina Sousa, Miguel R. Gonçalves, Marta Drummond
Pre-congress content

Session 52 00:00 - 23:59

**E-poster session: Pulmonary function and rehabilitation in non-respiratory disease**

**Disease(s):**
- Respiratory critical care
- Pulmonary vascular diseases
- Airway diseases
- Interstitial lung diseases
- Sleep and breathing disorders
- Thoracic oncology

**Method(s):**
- General respiratory patient care
- Pulmonary rehabilitation
- Pulmonary function testing
- Respiratory intensive care
- Epidemiology
- Public health
- Palliative care
- Surgery
- Transplantation

**Chairs:** Sara Mcarthur (Edinburgh (Edinburgh), United Kingdom), Enrico M. Clini (Modena (MO), Italy)

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<td>Home mechanical ventilation in chronic hypercapnic COPD patients: impact on acute exacerbations and survival</td>
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<td>Late Breaking Abstract - IMPACT OF CONFINEMENT ON ALS PATIENTS DUE TO THE SARS-CoV-2 PANDEMIC</td>
<td>Cristina Gomez Rebollo (Córdoba, Spain), Maria Melgar Herrero, Estefania Mira Padilla, Cristina Villalba Moral, Cristina Muñoz Corroto, Natalia Pascual Martinez</td>
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<td>Implication of regular pulmonary function evaluation in Duchenne muscular dystrophy</td>
<td>Jang Woo Lee (Goyang-si, Republic of Korea), Han Eol Cho, Seong-Woong Kang, Justin Byun, Jong Weon Justin Lee, Won Ah Choi</td>
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<td>Nutritional Parameters and Dyspnea Status in End-Stage Renal Disease Patients</td>
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<td>Ventilatory impairments associated with Parkinson’s Disease: a systematic review and meta-analysis</td>
<td>Laura Lopez Lopez (Granada, Spain), Esther Prados Román, Irene Torres Sánchez, Natalia Muñoz Vigueras, Irene Cabrera Martos, Marie Carmen Valenza</td>
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<td>Assessment of clinical and instrumental efficacy of Expiratory Flow Accelerator technology in patients with Primary Ciliary Dyskinesia.</td>
<td>Silvano Dragonieri (Bari (BA), Italy), Alessia Masciave’, Enza Pentassuglia, Paola Giordano, Luigi Mappa</td>
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<td>The effects of core stabilization exercises on pulmonary function, functional capacity and peripheral muscle strength in children with adolescent idiopathic scoliosis.</td>
<td>Sefa Yıldırım (İstanbul, Turkey), Semiramis Özylmaz, Nuh Mehmet Elmadığ</td>
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<td>The “chronically critical ill” patient: characteristics of a population of patients admitted to a pulmonary rehabilitation unit</td>
<td>Elisa Chellini (Firenze (FI), Italy), Barbara Lanini, Isabella Romagnoli, Barbara Binazzi, Luca Bianchi, Elena Lippi, Alessio Lazzeri, Silvia Campagnini, Andrea Mannini, Francesco Gigliotti</td>
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<td>School children as change agent for early diagnosis, treatment and prevention of respiratory illness and diseases</td>
<td>Fatema Zannat, Kazi Faisal Mahmud, Kazi Raiyan Mahmud, Mostafizur Rahman, Fatema Rafat, Kazi Faiyad Mahmud, Kazi Fahim Mahmud, Rumana Afroze, Nishat Jahan</td>
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<td>Evaluation of respiratory impedance in patients with ankylosing spondylitis</td>
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<td>Yehia Yasseen Zakaria (Cairo, Egypt)</td>
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<td>Viridiana Peláez-Hernández (Mexico City, Mexico), Diana Rosario Mireles-Sánchez, Laura Arely Martinez-Bautista, Karen Aide Santillán-Reyes, Karla Leticia Rosales Castillo</td>
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<td>Cured pulmonary tuberculosis population: what is next?</td>
<td>Susan Hanekom (Stellenbosch, South Africa), Kurt Daniels, Elvis Irusen, Hamilton Pharoa</td>
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<td>Use of intrapulmonary percussive ventilation in children with chronic respiratory illness (CR1) treated at home.</td>
<td>Adel Bougatet (San Antonio, United States of America), Kelly J. Smith, Rodney Gray, Guadalupe Martinez, Tarek Patel</td>
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<td>Non-invasive ventilation post lung transplantation in a home setting</td>
<td>Ana Raquel Magalhães (Lisboa, Portugal), Inês Moreira, Vânia Caldeira, Tiago Sá, Alexandra Borba, Paulo Calvinho, Luisa Semedo, João Cardoso, José Fragata</td>
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Bedside evaluation of swallowing function in prolonged weaning patients. Significance of a targeted speech rehabilitation in weaning outcome.

Anna Bartolini (Italy), Guido Vagheggini, Eugenia Panait, Tommaso Solli, Tania Pacioni, Martina Salvini, Anna Zito

Prehabilitation can turn inoperable patients with NSLC to operable ones?

Kalliopi Athanassiadi (Athens, Greece), Dimitrios Magouliotis, Aikaterini Katsandi, Andreas Asimakos, Niki Gianniou, Stylianos Kokkoris, Pantelis Kourgiantakis, Eirini Batsaki, Foteini Domouchtsi, Spyridon Zakynthinos

A novel mobile wearable system for providing real-time monitoring of respiratory pattern, thoracic motion, and SpO2 on a tablet PC: A feasibility study

Jun Ueki (Urayasu, Japan), Keiko Hino, Emika Sano, Megumi Ikeda, Masaya Yonezawa, Hiroshi Gyobu, Yuko Sano, Hiroo Wada

Portable oxygen concentrator versus oxygen cylinder in chronic lung disease: patient preferences and psychological implications

Mauro Maniscalco (Napoli (NA), Italy), Michele Martucci, Salvatore Fuschillo, Alberto De Felice, Pasquale Moretta, Antonio Molino, Michele Vitacca

Pre-congress content Session 53 00:00 - 23:59

E-poster session: Risk factors, comorbidities and remote monitoring in childhood asthma

Disease(s): Airway diseases

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

Chairs: Clare Murray (Manchester, United Kingdom), Alexander Möller (Zürich, Switzerland)

External validation of Asthma prediction tool in the French ELFE cohort

Sadia Khan (BORDEAUX Cedex, France), Bénédicte Leynaert, Steffi Rocchi, Jacques Deblic, Christophe Marguet, Antoine Deschildre, Emeline Scherer, Gabriel Reboux, Marie Christine Delmas, Marie-Noëlle Dufourg, Corinne Bois, Marie-Aline Charles, Amandine Divaret-Chauveau, Laurence Million, Chantal Raherison

Identifying predictors for referral to a physiotherapy service for children with difficult asthma.

Charlotte Wells (Braintree, United Kingdom), Martin Cartwright, Shaahvdan Hirani, Gemma Marsh, Pippa Hall, Angela Jamalzadeh, Samatha Sonnappa, Andy Bush, Louise Fleming, Segal Saglani

Risk factors in early school age children predict asthma in adulthood

Laura Healy (Manchester, United Kingdom), Angela Simpson, Clare S Murray, Gina Kerry, Lesley Lowe

Prevalence of and factors related to tobacco smoking in children with asthma

Hasan Yuksel (London, United Kingdom), Adem Yaşar, Ahmet Türkeli, Canan Sule Kalkiner, Özge Yılmaz

Cardiopulmonary exercise testing in children with mild-moderate controlled asthma

Olga Lagiou (Patras, Greece), Dimosthenis Lykouras, Kiriakos Karkoulias, Sotiris Fouzas, Gabriel Dimitriou, Michael Anthracopoulos

Electronic monitoring of adherence to inhaled corticosteroids in preschool children with wheeze

Yvonne Bingham (London, United Kingdom), Louise Fleming, Nina Sanghani, James Cook, Pippa Hall, Angela Jamalzadeh, Rachael Moore-Crouch, Andrew Bush, Sejal Saglani

Empowering children with asthma: a framework for clinical practice based on a qualitative literature review

Lucy Gait (Liverpool, United Kingdom), Mel Longworth, Lynsey Brown, Victoria Worrall, Claire Hepworth, Neal Mingaud, Andrew Lilley, Philip Lawrence, Christopher Grime, Rebecca Thursfield, Calum Semple, Justus Simba, Ian Sinha

Feasibility of an exercise challenge test in a low-resource community settings to diagnose exercise-induced airway hyperresponsiveness in children

Mohammad Shahidul Islam (Edinburgh, United Kingdom), Steve Cunningham, Salahuddin Ahmed, Samin Huq, Lima Aktar, Ashraful Islam, Abdullah H Baqui, Aziz Sheikh, Samir K Saha, Harish Nair

Early prediction of childhood asthma exacerbations through a combination of statistical and machine learning approaches.

Aditya Nagori (New Delhi, India), Tavpritesh Sethi, Sushil Kumar Kabra, Rakesh Lodha, Anurag Agrawal

Remote monitoring of medication and lung function of asthmatic children

Chris Landon (Ventura, United States of America), Rajoshi Biswas, Emiel Paronyan, Kaitlyn Wallace, Hannah Wicklund

Prevalence trends of asthma, rhinoconjunctivitis and eczema in schoolchildren of Patras, Greece: six consecutive surveys between 1991 and 2018

Alexandros Ntzounas, Greece), Ioannis Giannakopoulos, Panagiotis Lambropoulos, Stella Malliori, Michael Anthracopoulos, Sotiris Fouzas
The impact of socio-economic deprivation on airway obstruction and inflammation in children with severe asthma: analysis of a tertiary regional clinic in the UK
Philip Lawrence (Liverpool (Merseyside), United Kingdom), Claire Hepworth, Neil Mingaud, Justus Simba, Ian Sinha

The burden of severe asthma in children and youths in Europe

Why are children with asthma bullied? A quantitative analysis of bullying risk factors in the Room to Breathe cohort.
Rebecca Charles, United Kingdom, Paul Brand, Francis Gilchrist, Johannes Wildhaber, Will Carroll

Pre-congress content Session 54 00:00 - 23:59

E-poster session: Determinants of chronic respiratory diseases

Disease(s): Airway diseases Sleep and breathing disorders
Method(s): Epidemiology Pulmonary function testing Public health General respiratory patient care

Respiratory conditions are underreported on death certificates among deceased with chronic airway obstruction
Anne Lindberg (Boden, Sweden), Lina Lindberg, Sami Sawalha, Helena Backman, Ulf Nilsson, Caroline Stridsman, Bo Lundbäck, Eva Rönmark

Predictors of permanent detachment from the workforce after acute exacerbation of chronic obstructive pulmonary disease (COPD).
Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Kragholm, Christain Top-Pedersen, Ulla Møller Weinreich

The effect of sleep-disordered breathing (SDB) on adverse consequences associated with opioid use: A population study
Tetyana Kendzerska (Ottawa (ON), Canada), Tara Gomes, Atul Malhotra, Andrea Gershon, Marcus Povitz, Daniel Mcisaac, Shawn Aaron, Frances Chung, Gregory Bryson, Robert Talarico, Tahmid Ahmed, Michael Godbout, Peter Tanuseputro

Risk factor pattern for asthma in 1996, 2006 and 2016 in Sweden - the OLIN and Nordic EpiLung studies
Anne Lindberg (Boden, Sweden), Christian Schyllert, Linnea Hedman, Caroline Stridsman, Laxmi Bhatta, Hannu Kankaanranta, Päivi Piirila, Bo Lundbäck, Eva Rönmark, Helena Backman

Growing up on a farm and multi-symptom asthma in adults >50 years by age of asthma onset
Bright Nwaru, Mona Palmqvist, Monica Arvidsson, Jan Lötvall

No increase in incidence of asthma among adults
Petri Rääsänen (Luleå, Sweden), Helena Backman, Linnea Hedman, Martin Andersson, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Rönmark

Who are the patients who die of COPD with no evidence of prior diagnosis? A UK primary care database analysis.
Alicia Gayle (London (United Kingdom), Alexandra Lenoir, Cosetta Minelli, Jennifer Quint

Long-term exposure to air pollution, road traffic noise and asthma incidence: the Danish Nurse Cohort
Shuo Liu (Copenhagen, Denmark), Shuo Liu, Jeanette Thermoing Jorgensen, Youn-Hee Lim, Hersh Amini, Amar Jayant Mehta, Laust Hvas Mortensen, Rudi Gj Westendorp, Marie Pedersen, Steffen Loft, Elvira Vlaclavik Bräuner, Matthias Ketzel, Ole Hertel, Jorgen Brandt, Steen Solvang Jensen, Torben Sigsgaard, Claus Backalzar, Mette Kildevælde Simonsen, Zorana Jovanovic Andersen

Impact of Particulate Matter on Emergency Department admissions and hospitalizations for COPD Exacerbation
Laura Pini (Brescia (BS), Italy), Jordan Franz Giordani, Carlo Concoreggi, Giulia Gardini, Elena Cadone Ughi, Alessandro Pini, Roberto Magri, Guido Levi, Leonardo Pedroni, Manuela Ciarpaglia, Claudio Tantucci

Perennial allergy is a modifiable risk factor for exacerbations and respiratory infections in asthma patients
Christian Woehlk (København, Denmark), Muzhda Ghanizada, Anna Von Bülow, Celeste Porsbjerg

Assessment of chronic bronchitis in young adults - results from the BAM SE cohort
Gang Wang (Chengdu (Sichuan), China), Jenny Hallberg, Petra Um Bergström, Christer Janson, Göran Pershagen, Antonios Georgelis, Anna Bergström, Inger Kull, Anders Lindén, Erik Melén

Age of onset of rhinitis as a determinant of different rhinitis phenotypes
Marine Savouré (Villejuif, France), Jean Bousquet, Marie Zins, Marcel Goldberg, Bénédicte Jacquemin, Rachel Nadif
The Czechia COPD mortality rate declining, but total deaths increasing
Vladimir Koblizek (Hradec Králové, Czech Republic), Jiri Jarkovsky, Ladislav Dusek, Klara Benesova, Michal Svoboda, Kristian Brat

Pet ownership and allergic sensitisation and asthma in childhood: findings from the EU Child Cohort Network
Angela Pinot de Moira, Katrine Strandberg-Larsen, Evelien Van Meel, Rosalie Mensink-Bout, Maja Popovic, Tim Cadman, Tiffany Yang, Johanna Thorbjørnsrud Nader, Rachel Foong, Agnieszka Jankowska, Theodosia Salika, Costanza Pizzi, Demetris Avraam, Ahmed Elhakeem, Attana Lertxundi, Maribel Casas, Ana Esplugues, Marisa Estarlich, Jordi Sunyer, Debbie Lawlor, Jennifer Harris, Kinga Polańska, Barbara Heude, Rae-Chi Huang, Hazel Inskip, Vincent Jaddoe, Anne-Marie Nybo Andersen, Liesbeth Duijts

Influence of agricultural and grey spaces proximity on biomarkers of exposure and effect: a population-based study
Sara Maio (Pisa (PI), Italy), Sandra Baldacci, Anna Angino, Eija Parmes, Juha Pärkkä, Giancarlo Pesce, Cara Nichole Maesano, Isabella Annesi-Maesano, Giovanni Viegi

Life-course socioeconomic disadvantage and respiratory-related functioning lost in older adults: a multi-cohort study of 53788 individuals
Vânia Patrícia Martins Rocha (Aveiro, Portugal), Silvia Fraga, Carla Moreira, Cristian Carmeli, Alexandra Lenoir, Andrew Steptoe, Graham Giles, Marcel Goldberg, Marie Zins, Mikael Kivimaki, Paolo Vineis, Peter Vollenweider, Henrique Barros, Silvia Stringhini

COPD Awareness in the Urban Slums and Rural Communities of Pune City, India
Deesha Ghorpade (Pune, India), Deesha Ghorpade, Jyoti Londhe, Sapna Madas, Nisha Kale, Arvinder Narula Pal Singh, Reshma Patil, Monica Barne, Prakash Doke, Sundeep Salvi

Pre-congress content
Session 55
00:00 - 23:59

E-poster session: Idiopathic pulmonary fibrosis and interstitial lung disease: progression, genes and more

**Disease(s):** Interstitial lung diseases, Airway diseases

**Method(s):** General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Epidemiology, Endoscopy and interventional pulmonology, Imaging

**Chairs:** Maria Molina Molina (Barcelona, Spain), Vincent Cottin (Lyon, France)

**A cohort of patients with a progressive fibrosing phenotype of interstitial lung disease (PF-ILD) other than idiopathic pulmonary fibrosis (IPF): the PROGRESS study**
Mouhamad Nasser (Bron, France), Sophie Larrieu, Salim Si-Mohamed, Kais Ahmad, Loïc Bousset, Marie Brevet, Lara Chalabreysse, Céline Fabre, Sébastien Marque, Didier Revel, Francoise Thivolet-Bejui, Julie Traclet, Sabrina Zeghmar, Delphine Maucort-Boulch, Vincent Cottin

**Progressive fibrosing interstitial lung diseases (PF-ILDs): prevalence and characterization in two Italian referral centers**
Paola Faverio (Limbiate (MI), Italy), Roberto Cassandro, Martina Piluso, Federica De Giacomini, Matteo Della Zoppa, Sergio Alfonso Harari, Fabrizio Luppi, Alberto Pesci

**The incidence of Progressive Fibrotic Interstitial Lung Diseases (PFILD) treatable with oral-antifibrotic therapy in a UK Specialist Interstitial Lung Disease clinic.**
Thomas Simpson (Richmond, United Kingdom), Alex West

**Baseline CT thorax fibrosis using a cutoff of 10% alone does not portend a poorer prognosis in non-IPF ILD**
Michelle Kam (Singapore, Singapore), Yi Hern Tan, Su Ying Low

**Epidemiology and mortality of non-idiopathic pulmonary fibrosis (IPF) progressive fibrosing interstitial lung disease (PF-ILD) using the French national health insurance system (SNDS) database in France: the PROGRESS study**
Mouhamad Nasser (Bron, France), Sophie Larrieu, Loïc Bousset, Salim Si-Mohamed, Fabienne Diaz, Sébastien Marque, Jacques Massol, Didier Revel, Francoise Thivolet-Bejui, Lara Chalabreysse, Delphine Maucort-Boulch, Vincent Cottin

**Serum KL-6 identifies ILD patients with a progressive fibrosing phenotype**
Maria Kokosi (London, United Kingdom), Athina Trachalaki, Carmel Stock, Jackie Donovan, Elisa Tsitoura, Vasilios Kouranos, Peter M George, Phil L Molyneaux, Felix Chiu, Toby M Maher, Elisabetta A Renzoni, Nikolaos Tzanakis, Athol U Wells, Katerina Antoniou
Telomere-Related Gene mutations in a Greek cohort of suspected monogenic pulmonary fibrosis patients

Study of IPF relatives as a method of early diagnosis of ILD disease
OLAIA Bronte Moreno (GALDAKAO, Spain), Myriam Aburto, Amaia Urrutia, Carmen Jaca, Maria Iciar Arrizubieta, Miren Begoñe Salinas, Laura Tomás, Iñaki Salegui

A family history of ILD is a significant risk factor for worse transplant-free survival in IPF patients
Tinne Goos (Leuven, Belgium), Laurens De Sadeleer, Eric Verbeken, Geert Verleden, Johny Verschakelen, Jonas Yserbyt, Stijn Verleden, Wim Wuyts

The study of telomere associated genes and telomere measurement in Idiopathic Pulmonary Fibrosis
Halime Yıldırım (İstanbul, Turkey), Birsen Pınar Yıldız, Ender Mehmet Coşkunpınar

Clinical characteristics and prognosis of fibrotic nonspecific interstitial pneumonia
Hyun Kyu Cho (Seoul, Republic of Korea), Hongseok Yoo, Seungbum Wi, Kyung Soo Lee, Myung Jin Chung, Joungho Han, Man Pyo Chung

Extraocular HSP90a promotes cellular senescence in pulmonary fibrosis through TGFβ signaling
zhong wenshan (Guangzhou, China), Hangming Dong, Jimming Zhang, Yuanyuan Liu, Weimou Chen, Cuiping Ye, Xuan Wan, Shaoxi Cai

Extraocular HSP90a promotes pulmonary fibrosis by impairing autophagic flux in lung fibroblasts
Jimming Zhang (Guangzhou, China), Hangming Dong, Wenshan Zhong, Weimou Chen, Yuanyuan Liu, Xuan Wan, Cuiping Ye, Shaoxi Cai

Identification of profibrotic cells in the Idiopathic Pulmonary Fibrosis (IPF) lung
Panagiotis Benos (Pittsburgh, United States of America), Minxue Jia, Maria Kapetanaki, Tamara Cruz, Tracy Tabib, Ana Mora, Robert Lafyatis, Mauricio Rojas

Effects of a TRPV4 antagonist and pirfenidone on idiopathic pulmonary fibrosis
Koji Kuronuma (Sapporo, Japan), Masato Wakabayashi, Takeshi Yoshioka, Tomofumi Kobayashi, Masami Kameda, Mitsuo Otsuka, Hirofumi Chiba, Hiroki Takahashi

Cigarette-decreased NAD/SIRT1 aggravates pulmonary fibrosis by promoting senescence of alveolar type 2 cells through autophagy inhibition and mitochondrial oxidative stress induction
Yue Zhang (, China), Ying Meng

Characterizing lung resident mesenchymal stem cells in idiopathic pulmonary fibrosis patients
Aina Martin (Palma, Spain)

Characterizing lung resident mesenchymal stem cells in idiopathic pulmonary fibrosis
Aina Martin (Palma, Spain), Andreas Jahn, Carlos Rio, Amanda Iglesias, Josep Mercader, Ana Montes, Catalina Crespi, Jaume Pons, Julio Velasco, Cristina Villena, Angel F. Carvajal, Orlando Gigirey, Linda Elowson, Gunilla Westergren-Thorsson, Maria Molina, Ernest Sala-Llinas

Pre-congress content
Session 56
00:00 - 23:59

E-poster session: Multidrug-resistant tuberculosis

Disease(s): Airway diseases

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

Chairs: Keertan Dheda (Cape Town, South Africa), Alena Skrahina (Minsk region, Belarus)

Diagnostic utility of Primary Line Probe Assay in Extrapulmonary Tuberculosis
Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke

Bioresorbable polymer structures - promising carriers for prolonged forms of anti-tuberculosis drugs
Tatiana Smirnova (Moscow, Russian Federation), Evgeny Antonov, Sofya Andreevskaya, Sergei Bogorodski, Larisa Chernousova, Vladimir Popov

Trends in tuberculosis notification and treatment in Georgia
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Mamuka Chincharauli, Lali Mikiashvili
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<td>The risk of ineffective MDR/XDR TB treatment, based on bedaquiline: factors and their influence</td>
<td>Sergey Evgenievich Borisov (Moscow, Russian Federation), Alexy Filippov, Diana Ivanova, Taysia Ivanushkina, Evgeny Belilovsky</td>
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<td>Time to detection of Mycobacterium tuberculosis on liquid media as reflection of initial bacterial load - population data from 6 sample regions of the Russian Federation</td>
<td>Grigory Kaminsky (Moscow, Russian Federation), Anna Panova, Elena Veselova, Igor Sherstnev, Irina Osintseva, Vadim Testov, Anastasia Samoilova, Irina Vasilyeva</td>
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<td>Comparative evaluation of the rapid diagnostic assays for detecting tuberculosis (TB) in a reference center for drug resistant TB in Brazil</td>
<td>Ana Paula Santos (Rio De Janeiro (RJ), Brazil), Thiago Malaquias, Elisângela Costa, Fernanda Mello, Afrânio Kritski</td>
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<td>Mutation analysis and treatment outcomes of isoniazid monoresistant tuberculosis</td>
<td>Rajyalakshmi Gurram (Visakhapatnam, India), Vijayakumar Kaminedi, Phanindra Vasu Kotti, Yamini Priyanka Chintha</td>
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<td>Pulmonary surfactant: a Trojan Horse to deliver anti-TB drugs</td>
<td>Alberto Hidalgo (Saarbrücken, Germany), Jesus Perez-Gil, Claus-Michael Lehr</td>
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<td>Household catastrophic expenditure for tuberculosis care among adults = 18 years in Pakistan: Incidence, its determinants and policy implications</td>
<td>Shama Razzaq (Karachi, Pakistan), Shahla Naeem, Zafar Fatmi</td>
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<td>Assessment of the dynamics of focal changes after the intensive phase of treatment in patients with sensitive and resistant pulmonary tuberculosis</td>
<td>Oleksii Denysov (Kyiv, Ukraine), Mykola Gumeniuk, Mykola Lynnyk, Galina Gumeniuk, Viktoriia Ignatieva</td>
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<td>468</td>
<td>Long-term results of treatment with bedaquiline in patients with drug-resistant tuberculosis</td>
<td>Tatyana Morozova (Saratov, Russian Federation), Olga Otpuscheniykova</td>
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<td>469</td>
<td>An outbreak of extensively drug-resistant tuberculosis among a Portuguese family</td>
<td>Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Andre Nunes, Carina Rolo, Daniel Duarte, Natalia André, Rita Macedo, Antonio Domingos</td>
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<td>TREATMENT OF MDR-TB PATIENTS WITH DELETION POLYMORPHISM OF XENOBIOTICS DETOXICATION SYSTEM GENES OF GLUTATHIONE-S-TRANSFERASE</td>
<td>Igor Semianiv (Chernivtsi, Ukraine), Liliia Todoriko, Marianna Semianiv</td>
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<td>471</td>
<td>Results of drug susceptibility testing of Mycobacterium tuberculosis isolated from sputum and surgical material from pulmonary tuberculosis patients</td>
<td>Diana Vakhrusheva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Kseniya Belousova, Tatyana Umpeleva, Natalya Eremeeva</td>
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<td>Tuberculosis in children exposed to MTB with different drug resistance patterns</td>
<td>Marina Lozovskaya (St. Petersburg, Russian Federation), Alena Kurova, Natalya Nikiforenko, Elena Borisovna Vasilieva, Iulia Yarovaya, Ludmila Klochkova</td>
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<td>Demographic characteristics of drug-resistant tuberculosis in the Russian Federation</td>
<td>Sergey Sterlikov, Larisa Rusakova, Atadjan Ergeshov, Yulia Mikhailova</td>
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<td>Treatment outcome in patients with MDR-TB treated with bedaquiline containing regimens, Republic of Moldova</td>
<td>Dumitru Chesov (Chisinau, Republic of Moldova), Jan Heyckendorf, Maja Reiman, Sofia Alexandru, Ana Donica, Elena Chesov, Valeriu Crudu, Victor Botnaru, Christoph Lange</td>
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<td>Two year experience with the GeneXpert NAAT system in the romanian M. tuberculosis NRC in Bucharest</td>
<td>Adriana Moisoiu (Bucuresti, Romania), Andrei-Alexandru Muntean, Mircea Ioan Popa</td>
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<td>A UK cost comparison of amikacin therapy with bedaquiline, for drug resistant tuberculosis</td>
<td>Kavina Manalan (London, United Kingdom), Nathan Green, Amber Arnold, Graham Cooke, Martin Dedicoat, Marc Lipman, Thomas Harrison, Onn Min Kon</td>
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<td>Clinical Features Associated with Linezolid Resistance Among Multidrug Resistant Tuberculosis Patients at a Tertiary Care Hospital in Mumbai, India</td>
<td>Enrica Intini (Rome, Italy), Jeffrey A. Tornheim, Amita Gupta, Zarin F Udwadia</td>
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Pre-congress content  Session 57  00:00 - 23:59

E-poster session: Tuberculosis and comorbidities
### Disease(s):
- Airway diseases

### Method(s):
- General respiratory patient care
- Epidemiology
- Public health
- Pulmonary function testing
- Cell and molecular biology
- Imaging
- Surgery

### Chairs:
Christoph Lange (Borstel, Germany), Chair to be confirmed

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<td>Bronchial asthma and pulmonary tuberculosis as a comorbid diseases</td>
<td>Sergii Zaikov (Kyiv, Ukraine), Artemii Bogomolov, Sergii Zaikov</td>
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<td>Comorbidome in multidrug-resistant tuberculosis patients</td>
<td>Diana Ivanova (Moscow, Russian Federation), Diana Ivanova, Sergey Borisov, Nickolay Nikolenko, Sergey Kosenkov</td>
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<td>Screening coverage and treatment loss to follow-up of Diabetes and Tuberculosis (TB) patients in hospitals with measures to integrate care of Diabetes and TB and those without integration measures in Malawi</td>
<td>John Nyirenda (Freiburg, Germany), Dirk Wagner, Bagrey Ngwira, Berif Lange</td>
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<td>Chronic obstructive pulmonary disease and tuberculosis: phenotypes, options</td>
<td>Anna Mordyk (Omsk, Russian Federation), Natalia Bagisheva</td>
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<td>Mycobacterium tuberculosis infection in patients with inflammatory bowel disease who received Anti-Tumor Necrosis Factor treatment in Russia</td>
<td>Xenia Frolova (Moscow, Russian Federation), Serge Borisov</td>
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<td>A UK centre based review of tuberculosis post kidney transplantation</td>
<td>Kavina Manalan (London, United Kingdom), Mirae Park, Charaka Ratnayake, Rawya Charif, Onn Min Kon</td>
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<td>Features the effectiveness of the treatment of moxifloxacin in patients with co-infections tuberculosis/HIV and hepatitis B, and/or C</td>
<td>Dmytro Butov (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gumeniuk, Oleksiy Denysov, Tetiana Sprysnian, Tetiana Butova</td>
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<td>Inpatient versus outpatient approach in tuberculosis</td>
<td>Sara Catarina Dias (Braga, Portugal), Bárbara Seabra, Jorge Ferreira, Valquiria Alves, Bruno Cabrita, Ana Luísa Fernandes, Joana Amado</td>
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<td>Dynamics of inflammation biomarkers in drug sensitive tuberculosis and pneumonia</td>
<td>Greta Musteikiene (Kaunas, Lithuania), Skaidrius Miliauskas, Jurgita Zaveckiene, Daiva Urbonienë, Astra Vitkauskienë, Marius Žemaitis, Albinas Naudziunas</td>
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<td>TB following targeted and biological therapy: can we predict it?</td>
<td>John Cafferkey (London, United Kingdom), Sophia Kostich, Paul Jewell, Mikin Patel, Mirae Park, Timothy Harris, Genesis Canales, Georgina Russell, Onn Min Kon, Laura Martin</td>
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<td>488</td>
<td>Relative risks of tuberculosis in adolescents with comorbidities</td>
<td>Larissa Gorbach (Minsk, Belarus)</td>
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<td>Treatment outcome among post TB obstructive airways diseases &amp; COPD: A Prospective Cohort study</td>
<td>Sudarsan Pothal (Sambalpur (Odisha), India), Smrutirekha Swain, Aurobindo Behera, Gaurahari Pradhan, Rekha Manjhi, Pravati Dutta</td>
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<td>Relationship between the Matrix Metalloproteinases (MMPs) levels and lung mechanic parameters established by impulse oscillometry (IOS) in patients with pulmonary tuberculosis (TB)</td>
<td>Larisa Kiryukhina (St. Petersburg, Russian Federation), Dilyara Esmedlyaeva, Nina Denisova, Nataliia Nefedova, Marina Dyakova, Piotr Yablonskii</td>
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<td>491</td>
<td>Radiological sequelae in post tuberculosis patients treated at a tertiary care center in Pakistan: A retrospective study</td>
<td>Syed Muhammad Zubair (Karachi, Pakistan), Muhammad Irfan, Ali Bin Sarwar Zubairi</td>
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<td>Timing of relapse of tuberculosis in people with co-infection (HIV/TB)</td>
<td>Elena Filatova (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Elena Filatova, Irina Vasileyeva, Vadim Testov, Andry Senin</td>
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<td>Surgical methods in the diagnostic of tuberculosis in HIV patients</td>
<td>Tamila Abu Arqoub (Moscow, Russian Federation), Mikhail Sinitsyn, Boris Barskiy, Dmitriy Plotkin, Mikhail Reshetnikov</td>
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<td>Delay in diagnosis of pulmonary tuberculosis in a Portuguese Center</td>
<td>Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), André Nunes, Carina Silvestre, Daniel Duarte, Paula Raimundo, Natalia André, António Domingos</td>
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<td>Session 58</td>
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**E-poster session: Tuberculosis and adverse events in different populations**

**Disease(s):** General respiratory patient care, Public health, Epidemiology, Surgery, Respiratory intensive care  
**Method(s):** General respiratory patient care, Public health, Epidemiology, Surgery, Respiratory intensive care  
**Chairs:** Dennis Falzon (Genêve, Switzerland), Onno Akkerman (Groningen, Netherlands)

| 498 | **Hyperuricemia in patients with newly detected MDR tuberculosis.**  
Rizvan Abdullaev (Moscow, Russian Federation), Elena Chumakova, Oksana Komissarova |
| 499 | **Predisposition to the development of depressive states in patients with M/XDR TB**  
Tatiana Butova (Kharkiv, Ukraine), Oleksiy Denysov, Tetiana Sprynsian, Dmytro Butov |
| 500 | **Side effects of tuberculosis chemotherapy: intestinal dysbiosis**  
Svetlana Kayukova (Moscow, Russian Federation), Zhanna Luluyeva, Tatevik Bagdasarian, Atadzhan Ergeshov |
| 501 | **Psychiatric Complications in Patients Receiving Treatment for Multi-Drug Resistant Tuberculosis**  
Poulomi Chatterjee (Gurgaon (Haryana), India), Sameer Kotalwar, Vinip Goyal, Kapil Sharma |
| 502 | **Methods of bronchopleural fistulas prevention in MDR-, XDR TB patients after pneumonectomies**  
Alexander Bazhenov (Ekaterinburg, Russian Federation), Igor Motus, Petr Kholniy, Nataliya Raevskaya, Igor Medvinskii, Dmiriy Kuznetsov |
| 503 | **Long-term effectiveness of surgery treatment of TB patients**  
Evgeny Belilovskiy (Moscow, Russian Federation), Michael Sinitsyn, Sergey Borisov, Marina Matveeva, Sergey Rostovtsev |
| 504 | **Characteristics and risk factors for missed pulmonary tuberculosis**  
Sehyun Kwak (Seoul, Republic of Korea), Joon Chang, Young Sam Kim, Moo Suk Park, Ji Ye Jung, Kyung Soo Chung, Song Yee Kim, Sang Hoon Lee, Su Hwan Lee, Ah Young Leem, Young Ae Kang |
| 505 | **Prevalence and characteristic of drug-resistant tuberculosis patients in South Halmahera District, eastern Indonesia**  
Ait Puspitasar Dewi (Jakarta, Indonesia) |
| 507 | **Do PLHIV know and adhere to Isoniazid preventive therapy in health facilities in Southeast Nigeria?**  
Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Ifeyinwa Akamike, Lawrence Ogbonnaya |
| 508 | **Barriers and facilitators of a latent tuberculosis screening and treatment programme of recent migrants**  
Kathryn O'Brien (New York, United States of America), Sabina Ikram, Matthew Burman, Heinke Kunst |
| 509 | **Barriers in accessing the specialised healthcare providers in homeless patients with tuberculosis**  
Andrei Ungurean (Chisinau, Republic of Moldova), Alina Malic, Evelina Lesnic |
| 510 | **Pulmonary Tuberculosis seasonality in Tunisia**  
Abir Hedhi Ep Cherni (Tunis, Tunisia), Safa Marzouki, Meriem Mjid, Yacine Ouahchi, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujani, Samira Meraa |
| 511 | **A study on prevalence of latent tuberculosis in prison inmates of a single outdoor prison in central Sri Lanka**  
Sachini Seneviratne (Kandy (CP), Sri Lanka), Dushantha Madedegara, Ruwantha Edirisinghe, Birendra Perera, Lihini Basnayake, Sajani Dharmadas, Isheldi Nawarathne, Prasanna Wijerathne, Anushika Luckmy |
| 512 | **Delay in tuberculosis diagnosis and treatment in Bissau, Guinea-Bissau**  
Joelma Clotilde Costa Da Silva (Vila Nova de Gaia, Portugal), Emilia Marcelina Dos Santos, Dionisio Mendes, Raquel Duarte |
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<td><strong>Method(s):</strong></td>
<td>General respiratory patient care  Imaging  Endoscopy and interventional pulmonology  Cell and molecular biology  Respiratory intensive care  Pulmonary function testing  Epidemiology  Public health</td>
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<td><strong>Chairs:</strong></td>
<td>Daniela Maria Cirillo (Milano (MI), Italy), Lorenzo Guglielmetti (Paris, France)</td>
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<td><strong>518</strong></td>
<td>Clinical profile and treatment outcomes of mediastinal lymph node TB: A prospective cohort study</td>
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<td>Sryma P. B. (New Delhi, India), Karan Madan, Bijay Pattnaik, Saurabh Mittal, Pavan Tiwari, Anant Mohan, Vijay Hadda, Deepali Jain, Ravindra Pandey, Randeep Guleria</td>
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<td><strong>519</strong></td>
<td>Diagnostic accuracy of TB PCR in mediastinal lymph node TB in a UK centre using EBUS-TBNA.</td>
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<td>Mirae Park (London, United Kingdom), Kartik Kumar, Sean O'Riordan, Meg Coleman, Laura Martin, Georgina Russell, Giovanni Satta, Onn Min Kon</td>
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<td><strong>520</strong></td>
<td>A retrospective evaluation of the management of ocular tuberculosis in Southampton</td>
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<td>Sophie Knipe (Dorchester, United Kingdom), Ben Marshall</td>
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<td><strong>521</strong></td>
<td>Evaluation of inflammatory mediators of pleural effusion in tuberculosis and non-tuberculosis patients</td>
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<td>Neda Dalil Roofchayee (Tehran, Islamic Republic of Iran), Majid Marjani, Neda K. Dezfuli, Ian M. Adcock, Esmaeil Mortaz</td>
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<td><strong>522</strong></td>
<td>Challenges of diagnosing tuberculous pleural effusion in children: a study of 135 cases</td>
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<td>Elena Lupu (Chisinau, Republic of Moldova), Stela Kulcitkaia, Evelina Lesnic</td>
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<td><strong>523</strong></td>
<td>Endobronchial-ultrasound guided transbronchial needle aspiration (EBUS-TBNA) in Tuberculous mediastinal lymphadenopathy</td>
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<td>Saurabh Mittal (New Delhi (Delhi), India), Karan Madan, Anant Mohan, Vijay Hadda, Pawan Tiwari, Randeep Guleria</td>
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<td><strong>524</strong></td>
<td>Determining advantages and limitations of laser confocal microscopy for imaging M. tuberculosis in thick sections of lung tissues</td>
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<td>Lepkeha Larisa (Moscow, Russian Federation), Maria Erokhina, Elena Voronezhskaya, Vadim Avdienko, Atadzhan Ergeshov</td>
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<td><strong>525</strong></td>
<td>Is smear microscopy obsolete in the era of Xpert MTB/Rif?</td>
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<td>Barney Isaac (Vellore (Tamil Nadu), India), Devasahayam Christopher, Rajascker Sekar, Balamugesh Thangakunam</td>
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<td><strong>526</strong></td>
<td>Evaluation of DestiNA ‘spin-tube’ technology - a novel test for the diagnosis of tuberculosis and mycobacteriosis</td>
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<td>Tatiana Smirnova (Moscow, Russian Federation), Sofya Andreevskaya, Elena Larionova, Irina Andrievskaya, Ekaterina Kiseleva, Larisa Chernousova, Atadzhan Ergeshov, Juan Diaz Mochon, Mayys Trabue, Mario Antonio Fara, Antonio Martinez-Murcia, Adrian Garcia Sirera, Aaron Navarro Garcia, Riccardo Manganelli, Luisa Barzon, Alessandro Sinigaglia, Mark Bradley, Daniel Norman, Seshasailam Venkateswaran</td>
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<td><strong>527</strong></td>
<td>Genetic risk score constituted by Toll-like receptor and matrix metalloproteinase single nucleotide polymorphisms helps predict tuberculosis status progression</td>
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<td>Lun-Che Chen (New Taipei City, Taiwan), Han-Ching Yang, Meng-Rui Lee, Jann-Yuan Wang, Jen-Chung Ko</td>
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Identification of cultures consisting of two species of mycobacteria from patients in the Russian Federation
Tatiana Smirnova (Moscow, Russian Federation), Atadzhon Ergeshov, Sofya Andreevskaya, Elena Larionova, Irina Andrievskaya, Ekaterina Kiseleva, Larisa Chernousova

Accuracy of the Xpert MTB/RIF® in Broncoalveolar Lavage and Induced Sputum at Tertiary Care Hospital in Rio de Janeiro, Brazil
Ana Paula Santos (Rio De Janeiro (RJ), Brazil), Luana Souza Andrade, Fernanda C. Q. Mello

Role of bronchial aspirate samples for the diagnosis of pulmonary tuberculosis in patients with negative smear and negative Xpert MTB/Rif in sputum
Dumitrus Chesov (Chisinau, Republic of Moldova), Jan Heyckendrof, Doina Rusu, Oxana Munteanu, Elena Chesov, Victor Cozlovscchi, Valeriu Crudu, Christoph Lange, Victor Botnaru

Rapid and Sensitive Diagnosis of Tuberculosis with a Gene-based Microfluidic Platform
Sei Won Lee (Seoul, Republic of Korea), Young Ae Kang, Choong Eun Jin, Yong Shin, Sung-Han Kim

Analysis of circular RNAs expression profile in tuberculous pleurisy
Qiang Xiao, Xi Li, Fu Rong

Comparison of the results HRCT and SPECT with 99mTc-technetrium in detection the tuberculosis process in children
Stanislav Mikhaylov (Moscow, Russian Federation), Stanislav Mikhaylov, Natalya Yukhimenko, Natalya Karpina, Rasul Amansakhedov, Andrey Perfiliev

The yield of bronchoscopy in sputum Xpert MTB/Rif negative tuberculosis in the Xpert era.
Rajagopal T. V. (Neyveli (Tamil Nadu), India), Barney Isaac, Devasahayam J Christopher, Balamugesh Thangakunam, Richa Gupta, Prince James

The assessment of Detection Acid Fast Bacilli in specimens of radial EBUS and conventional bronchoscopy and concordance in the diagnosis of pulmonary TB.
Irina Shabalina (Moscow, Russian Federation), Ilya Sivokozov, Dmitry Dedushkin, Tatyana Smirnova, Svetlana Shishova, Natalya Karpina

A set of microRNA markers of active tuberculosis.
Galina Shelpelkova (Moscow, Russian Federation), Vladimir Evtisteev, Anush Ergeshova, Alexander Guskov, Mamed Bagirov, Vladimir Yeremeev

Pre-congress content Session 60 00:00 - 23:59
E-poster session: Clinical and functional evaluation of COPD
Disease(s): Airway diseases, Sleep and breathing disorders, Interstitial lung diseases
Method(s): General respiratory patient care, Pulmonary function testing, Physiology, Cell and molecular biology, Epidemiology, Public health, Imaging
Chairs: Zsófia Lázár (Budapest, Hungary), Anirban Sinha (Amsterdam, Netherlands)

Impact of systemic inflammation on frequency and severity of mental disorders in COPD patients (pts)
Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Yuliia Huba, Tetyana Pertseva, Daria Koval

Monitoring physical activity in COPD patients - a monocentric, prospective cohort study
Maximilian Bösch (St.Gallen, Switzerland), Frank Rassouli, Verica Filipin-Horvath, Sandra Widmer, Florent Baty, Martin H. Brutsche

The underestimated subjectivity of the COPD assessment test
Rebeca Martins Natal (Guarda, Portugal), Ana Pais, Jorge M. R. Gama, Fátima Rodrigues, Luís Vaz Rodrigues

Applying reference equations for 6-minute walking test in COPD and ILD patients
Daniel Oliveira Reis (Ovar, Portugal), Pedro Oliveira, Joana Gomes, Ricardo Lima, Miguel Guimarães, Inês Ladeira

Significance of brain network on physical activity among obstructive lung disease
Tsunahiko Hirano (Ube, Japan), Tomohiro Donishi, Syun Takahashi, Kazuyoshi Suga, Keiko Doi, Taiga Tsukamoto, Keita Murakawa, Ayumi Chikumoto, Yuichi Ohtera, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Nowoama, Nobutaka Edakuni, Tomoyuki Kagawa, Kazuto Matsunaga

Clinical prognostic tools and their use in COPD.
Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Sarah Gillespie, Tom Hartley, Carlos Echevarria, John Steer, Stephen Bourke

Assessment of thyroid function tests in COPD phenotypes
AYCAN YUKSEL (Ankara, Turkey), Evrim Eylem Akpınar, Esen Sayin Gulensoy, Nalan Ogus, Aslihan Alkan
Comparative Efficacy of Long-Acting Muscarinic Antagonists in COPD: Real Life Study
Edin Jusufovic (Tuzla, Bosnia and Herzegovina), Vladimir Zugic, Mirja Kosnik, Mirjana Jovancevic Drvenica, Sanja Hromis, Jasmina Nurkic, Mona Al-Almad, Ljiljana Bulat Kardum, Rifat Sejdinovic, Besim PNH-javorac, Azra Jusufovic

The association between airway hyperresponsiveness to mannitol and T2 inflammatory markers in asthma versus COPD
Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Morten Hvidfeldt, Asger Sverrild, Ulfe Böttger, Kerstin Romberg, Leif Bjermer, Jonas Erjefält, Karsten Kristiansen

Non-contact Doppler radar screening system for the detection of COPD
Hiroki Nishine (Kawasaki (Kanagawa), Japan), Hiroki Takamoto, Guanghao Sun, Shohei Suno, Takeo Inoue, Takemi Matsui, Masamichi Mineshita

Useful malnutrition diagnostic criteria for stable COPD in Japanese patients
Hiroyuki Nakamura (Kagawa, Japan), Nobuyuki Kita, Chiaki Kunikata, Kiyotaka Tanimoto, Teruhisa Taoka

Feasibility of daily vital signs monitoring (VSM) in COPD
Grace France (Leicester, United Kingdom), Neil J Greening, Dale Esliger, Michael C Steiner, Sally J Singh, Mark W Orme

Heart remodeling in patients after ST-segment elevation myocardial infarction with and without concomitant COPD.
Alexandra Balitskya (Barnaul, Russian Federation), Elena Klester, Karolina Krzest, Valentina Yarkova, Victor Nikitin

Screening for COPD with a portable spirometer among hospitalised smokers
Katarzyna Mycroft (Warszawa, Poland), Piotr Jankowski, Olga Żelazna, Marcin Zagaja, Kornelia Woźniczko, Urszula Szafranka, Mikolaj Kutka, Piotr Korczyński, Lukasz Koltowski, Grzegorz Opolski, Rafal Krenke, Katarzyna Gorska

Decaf score for predicting treatment escalation in exacerbations of COPD
Caroline de Boer (Apeldoorn, Netherlands), Margot Van Den Berg-Ter Veer, Roy Sprooten, Frits Franssen, Sami O. Simons

Alveolar nitric oxide in a COPD cohort in Sweden over 2-year follow-up
Marieann Högman (Uppsala, Sweden), Alexandra Thorndalsson, Björn Ställberg, Karin Lisspers, Kristina Bröms, Christer Janson, Andrei Malinovschi

Metronome-paced incremental hyperventilation can be used to predict dynamic lung hyperinflation and exercise tolerance during exercise
Shohei Kawachi (Matsumoto, Japan), Fujimoto Keisaku

History of pulmonary tuberculosis was associated with lung microbiome change in patients with chronic obstructive pulmonary disease
Yen-Fu Chen (Yun-Lin County, Taiwan), Hsin-Han Hou, Jung-Yien Chien, Chin-Chung Shu, Shih-Lung Cheng, Hao-Chien Wang, Chong-Jen Yu

How can we improve availability of quality assured spirometry for patients admitted with an exacerbation of COPD?
Ciaran Mooney (London, United Kingdom), Luke Hone, Oscar Atkins

Pre-congress content Session 61 00:00 - 23:59
E-poster session: Mechanistic insight into lung injury and repair

Disease(s): Airway diseases, Respiratory critical care, Thoracic oncology, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Transplantation, Cell and molecular biology, Imaging, Physiology, General respiratory patient care, Pulmonary function testing

Chairs: Jonathan R. Baker (London, United Kingdom), Amiq Gazdhar (Schliern b. Köniz, Switzerland), Melanie Konigshoff (Denver, United States of America)

Feeder-free organoid-based expansion of primary alveolar cells: application of Organs-on-Chips technology to investigate the effect of long-term cyclic stretch
Anne M. van der Does (Leiden, Netherlands), Sander Van Riet, Annemarie Van Schadewijk, Padmini P.S.J. Khedoe, Jan Stolk, Geraldine A. Hamilton, Pieter S. Hiemstra

Overexpression of ISCU can extenuate mitochondrial damage, reduce EMT and bleomycin-induced pulmonary fibrosis
Lian Liu (Chengdu (Sichuan), China), Zhicheng Yuan, Wang Tao, Fuqiang Wen

Resolvin E3 reduces profibrotic factor production from macrophages leading to tissue homeostasis
Masakiyo Yatomi (Maebashi, Japan), Yasuhiro Koga, Haruka Saito, Makiko Sato, Hiroaki Tsumuraki, Kenichiro Hara, Noriaki Sunaga, Toshitaka Maeno, Hiroyuki Ikeda, Hayato Fukuda, Shouta Arai, Koichi Fujiwara, Satoshi Shuto, Takeshi Hisada
Overexpression of fatty acid synthase attenuate bleomycin induced lung injury/fibrosis via restoring mitochondrial dysfunction
Sung Woo Park (Bucheon, Republic of Korea), Soo Taek Uh, Do Jin Kim, An Soo Jang, Aee Rin Baek, June Hyuk Lee

ECM-alginate microcarriers for alveolar regeneration in COPD
Deniz Ali Bölükbas (Lund, Sweden), Zaid Rahman, Sinem Tas, Sandra Lindstedt, Han Gardeniers, Arturo Susarrey Arce, Darcy Wagner

Low-level laser boosts extracellular matrix cues and enhances acellular lung scaffold recellularization
Letícia Lopes Guimarães (São Paulo, Brazil), Letícia Lopes Guimarães, Aurilécia Aparecida De Brito, Tawany Gonçalves Santos, Andressa Darocno Cereta, Luis Vicente De Oliveira, Ana Paula Ligeiro De Oliveira, Renata Kelly Da Palma

Endoplasmic Reticulum Stress in Respiratory Muscle Dysfunction of Congenital Generalized Lipodystrophy Subjects
Julliane Tamara Araújo de Melo Campos (Natal, Brazil), Aquiles Sales Craveiro Sarmento, Jorge Luiz Dantas De Medeiros, Bruno Carneiro Bezerra, Lucien Peroni Gualdi, Josivan Gomes Lima, Lucymara Fassarella Agnez-Lima

Utility of decellularization in the reconstruction of large length tracheal defects. Experimental study.
Jose Alfredo Santibanez-Salgado (México D.F, Mexico), Jaime Villalba-Caloca, Avelina Sotres-Vega, David Mauricio Giraldo-Gómez, Sergio Martínez-Fonseca, Miguel Octavio Gaxiola-Gaxiola, Cristina Piña-Barba, Jazmín García-Montes, Marcelino Alonso-Gómez

Determinants of Airflow Limitation in Chronic Obstructive Pulmonary Disease
Vasily Polosukhin (Nashville, United States of America), Sergey Gutor, Bradley Richmond, Timothy Blackwell

Investigation of possible role of serum fibulin as biomarker of COPD.
Tanya Tacheva (Stara Zagora, Bulgaria), Dimo Dimov, Yanitsa Zhelyazkova, Muhammad Zafar, Tatyana Tatyana

Potential biomarkers in patients with chronic obstructive pulmonary disease (COPD)
George Samanidis, Konstantinos Perreas, Christos Verikokos, Konstantinosos Kontzoglou, Despina Perrea, Panagiotis Demetzis, Georgia Hardavella

Protective effect of inhaled glucocorticosteroids on COPD model.
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Elena Lebedeva

Adenosine-related mechanisms in the COPD pathogenesis in pulmonary tuberculosis (PT) patients
Larisa Kryukhina (St. Petersburg, Russian Federation), Marina Dyakova, Nataliia Serebryanaya, Diljara Esmedlyaeva, Piotr Yabloknskii

The role of pendrin in acute lung injury caused by ventilator-induced lung injury
Ji Soo Choi (Seoul, Republic of Korea), Mi Hwa Shin, Eun Hye Lee, Ju Hye Sin, Jae Young Choi, Moo Suk Park

The activity of the inflammatory process and markers of an extracellular matrix destruction in pulmonary tuberculosis
Larisa Kryukhina (St. Petersburg, Russian Federation), Diljara Esmedlyaeva, Nataliia Serebryanaya, Diljara Esmedlyaeva, Piotr Yabloknskii

Moderate and severe hyperoxia in preterm rabbits: airway reactivity, forced expiration and forced oscillation outcomes
Yannick Regin (Brussels, Belgium), André Gie, Arianna Mersanne, Jeroen Vanoirbeek, Jaan Toelen

Duration of home oxygen therapy and postnatal catch-up growth in bronchopulmonary dysplasia
Manisha Ramphul (Leicester (Leicestershire), United Kingdom), Anna Poghosyan, Dushyant Batra, Andrew Prayle, Jayesh M Bhatt

Gene expression and cellular profiling in a rat bleomycin model of drug-induced interstitial lung disease (DIILD)
Irina Mahmudovic Persson (Lund, Sweden), Nina Fransén Pettersson, Jian Liu, Hanna Falk-Håkansson, Lars E. Olsson, Karin Von Wachenfeldt

Delivery and efficacy of synthetic oligonucleotide vectors to an ARDS model by vibrating mesh nebulisation
Sean McCarthy (Galway, Ireland), Matthew Angel, Christopher Rohde, Ronan Macloughlin, Claire Masterson, John Laffey, Daniel O'Toole

Pre-congress content
Session 62
00:00 - 23:59

E-poster session: Challenges and updates in nursing care around the world
Disease(s): Sleep and breathing disorders, Airway diseases, Thoracic oncology, Respiratory critical care, Interstitial lung diseases
Method(s): General respiratory patient care, Pulmonary function testing, Epidemiology, Public health, Pulmonary rehabilitation, Endoscopy and interventional pulmonology, Respiratory intensive care
Chairs: Miguel Padilha (Porto, Portugal), Andreja Sajnic (Zagreb, Croatia)

575 Anxiety and depression in Dutch patients with Primary Ciliary Dyskinesia: Associations with health-related quality of life
Marieke Verkleij (Amsterdam, Netherlands), Eric Haarman, Iris Appelman, Irma Bon, Josje Altenburg, Alexandra L. Quitter

576 Nurse-provided education improves adherence and quality of life in adult patients with cystic fibrosis
Tihana Odobasic Palkovic (Zagreb, Croatia), Duska Tjesic-Drinkovic, Dorijan Tjesic-Drinkovic, Irena Godic, Ivana Lalic, Andreja Sajnic, Sandra Karabatic, Andrea Vukic Dugac

577 Self-cope cards: a pilot study with children affected by cystic fibrosis
Annamaria Bagnasco (Genova (GE), Italy), Gianluca Catania, Nicoletta Dasso, Ornella Corsi, Chiara Benzan, Veronica Pisano, Martina Zerbinati, Milko Zanini, Loredana Sasso

578 Efficacy of an individualized discharge planning program in rib fracture patients with and without lung injury after six months follow up.
Maria Granados Santiago (Alcaudete, Spain), Janet Rodriguez Torres, Esther Prados Román, Laura López López, Georgina Jiménez Lozano, Marie Carmen Valenza

579 Impact of nursing intervention on the measurement of sleepiness
Juan Lozano Lozano (Mijas (Málaga), Spain), Luis Fernandez De Rota Garcia, Dolores Garnica Báez

580 Inspiratory muscle training may improve extubation outcome in critically ill patients in the intensive care units.
Qiao Qiao (Changchun, China)

581 A pilot study to establish if the use of target saturation wristbands for community respiratory patients improves patient safety.
Sheilagh McCrossan (Canterbury (Kent), United Kingdom), Clair Gough, Jo Hobbs

582 Improving patient communication and nursing training in bronchoscopy
Cielito Caneja (Croydon (Surrey), United Kingdom), Ines Meireles, Robin J Hardie, Stefan D Garner, Andrew Sykes, Maria Pashouros, Samuel V Kemp, Pallav L Shah, Justin L Garner

583 Switching to maintenance and reliever inhaled corticosteroid/long acting beta agonist: a real-world pilot evaluation in a regional paediatric difficult asthma clinic.
May Al-moasseb (CLEETHORPES, United Kingdom), Victoria Worrall, Philip Lawrence, Ian Sinha

584 Use of relievers in patients with severe asthma on biologic therapy – a multidisciplinary approach
Mariana Rezelj (Stahovica, Slovenia), Peter Kopač, Irena Počvavšek, Jana Tršan, Tina Morgan, Sabina Skrgat

585 Alpha 1 antitrypsin deficiency prevalence measured by genetic testing with salivary swab in patients with chronic airway obstruction
Walther Ivan Giron Matute (Madrid, Spain), Margarita Hernandez Yañez, Rosa Maria Rojas Moreno-Tomé, María Gallardo Bermejo, Angela Gómez Sacristán, Barbará Escalonilla Bautista, Maria Del Carmen Suarez Rubio, Jose Javier Garcia López, Luis Puente Maestu

586 MAINTAINING PULMONARY REHABILITATION EFFECTS IN COPD PATIENTS AT HOME – A PROTOCOL STUDY
Duarte Pinto (Porto, Portugal), Miguel Padilha, Paulino Sousa, Paulo Puga Machado

587 What respiratory teaching is currently being delivered to pre-registration nurses in the United Kingdom?
Nicola J. Roberts (Glasgow (Glasgow), United Kingdom), Kate Lippiett, Carol Kelly

588 Role of the pleural clinical nurse specialist in improving the patient pathway
Laura Menautong (Glasgow, United Kingdom), Selina Tsim, Carolyn Macrae, Katie Ferguson, Jenny Ferguson, Kevin Blyth

589 The cost of the clinic visit - a short research project exploring the cost of clinic appointments, financial and otherwise, to families visiting Alder Hey Children’s Hospital
Bethan Chadwick (LIVERPOOL, United Kingdom), Polly Hayden, Ian Sinha

590 What influences patient choice of antifibrotic treatment in IPF?
Geraldine Burge (Solihull (West Midlands), United Kingdom), Emma Briggs, Helen Alldrick, Mary Bellamy, Sherwood Burge, Gareth Walters

591 Hospital at home for hypoxaemic patients: extending the remit of community respiratory care
Emma Rickards (St Helens (Merseyside), United Kingdom), Cenk Alhan, Mark Ambrose, Nikki Glover, Dennis Wat, Sarah Sibley, Rob Peat
Garry Rendle (Hitchin, United Kingdom), Katie O’Brien, Elaine Chan

Pre-congress content
Session 63
00:00 - 23:59

E-poster session: Cellular stress in respiratory diseases

Diseases:
- Respiratory critical care
- Interstitial lung diseases
- Airway diseases
- Sleep and breathing disorders
- Pulmonary vascular diseases

Methods:
- Cell and molecular biology
- General respiratory patient care
- Pulmonary function testing
- Physiology

Chairs:
- Reinoud Gosens (Groningen, Netherlands), Sabine Bartel (Groningen, Netherlands)

593 Late Breaking Abstract - Hypoxia-induced responses to mimic ongoing remodelling processes in chronic lung diseases
Anna Löfdahl (Lund, Sweden), Anas Rabata, Olivia Berggren, Rabeea Mirza Tahir, Martin Ryde, Leif Björmer, Gunilla Westergren-Thorsson, Ellen Tufvesson, Anna-Karin Larsson Callfèrt

594 Late Breaking Abstract - Contribution of STIM-activated TRPC-ORAI channels to the intermittent hypoxia-induced pulmonary hypertension
Sebastian Castillo (Santiago, Chile), German Arenas, Bernardo Krause, Rodrigo Iturriaga

595 Late Breaking Abstract - Impact of cyclic stretch on lung mesenchymal stem cells cultured on lung-extracellular matrix hydrogels
Álvaro Villarino (Barcelona, Spain), Esther Marhuenda, Bryan Falcons, Hector Sanz, Daniel Navajas, Ramon Farre, Jorge Otero, Isaac Almendros

596 Hedgehog signalling crosstalks orchestrate human lung development
Randa Belgacemi (bezannes, France), Soula Danopoulos, Gaëtan Deslée, Valerian Dormoy, Denise Al Alam

597 NLRP3 inflammasome conjugates with mitochondria in LPS-induced acute lung injury
So Ri Kim (Jeonju, Republic of Korea), Hee Jung Kim, Yong Chul Lee, Soon Ha Kim

598 Flagellin induces mucus hyperproduction in 3D bronchospheres
Richard Sprott, Felix Ritzmann, Frank Langer, Yvonne Kohl, Thomas Tschernig, Robert Bals, Christoph Beisswenger

599 Newly isolated bacteriophage multidrug-resistant Acinetobacter baumannii inhibition in ex vivo precision cut lung slices
Rita Costa (Oberschleißheim, Germany), Mohammadali Khan Mirzaei, Jinling Xue, Li Deng

600 Association of extracellular Hsp70 with the severity of chronic obstructive pulmonary disease
Iva Hlapčić (Zagreb, Croatia), Andrea Hulina-Tomašković, Marija Grdić Rajković, Sanja Popović-Grle, Andrea Vukić Dugac, Lada Rumora

601 Role of Extracellular HSP27 in pulmonary fibrosis
Lenny Pommerolle (Dijon, France), Olivier Burgy, Lucile Dondaine, Pierre-Marie Boutanquoi, Guillaume Beltramo, Julie Tanguy, Sabrina Loriod, Carmen Garrido, Philippe Bonniaud, Françoise Goirand

602 Hypercapnia-induced calcium dysregulation in the endoplasmic reticulum impairs Na,K-ATPase maturation in precision-cut lung slices and alveolar epithelial cells
Vitalii Kryvenko (Zaporizhia, Ukraine), Miriam Wessendorf, Olga Vagin, Laura A. Dada, Werner Seeger, Jacob I. Sznajder, István Vadász

603 Levels of oxidised mitochondria in BAL macrophages in fibrotic ILDs.
Eirini Vasarmidi (Heraklion (Crete), Greece), Eliza Tsitoura, Semeli Mastrodemou, Athina Trachalaki, Nikolaos Tzanakis, Katerina Antoniou

604 Modelling IPF-associated chronic cough: role for oxidative stress?
Jonathan H. A. Miles (London, United Kingdom), James W Pinkerton, Sara J Bonvini, Eric Dubuis, Michael A Wortley, Silvia Pontis, Marcello Trevisani, Gino Villette, Riccardo Patacchini, Philip L Molyneaux, Toby M Maher, Mark A Birrell, Maria G Belvisi

605 Towards personalized medicine in idiopathic pulmonary fibrosis by screening exhaled volatiles in patients’ primary bronchial epithelial cells
Agnes W. Boots (Maastricht, Netherlands), Carmen Veith, Michael Kreuter, Marc Schneider, Michael Meister, Agnieszka Smolinska, Frederik-Jan Van Schooten, Nicolas Kahn

606 The study of the activity of antioxidant enzymes in exhaled breath condensate (EBC) in patients with COPD
Repeated exposure to hydrogen peroxide enhances TGF-ß and LPS dependent inflammatory responses in BEAS-2B cells
Fawziye Tarhini (Glasgow, United Kingdom), Lynette Dunning, Ann Crilly, Joanna Brzeszczynska, Lorcan Mgarvey, Keith Thornbury, Carl S.Goodyear, John C.Lockhart, Gary J.Litherland

Nrf2-regulated chaperon-mediated autophagy is involved in apoptosis modulation in COPD pathogenesis.
Yusuke Hosaka (Tokyo, Japan), Jun Araya, Yu Fujita, Kazuya Tsubouchi, Tsukasa Kadota, Masahiro Yoshida, Shunsuke Minagawa, Hiromichi Haru, Hironori Kawamoto, Naoaki Watanabe, Akihiko Ito, Akihiro Ichikawa, Nayuta Saito, Takanori Numata, Kazuyoshi Kuwano

Lipocalin-2: a biomarker potentially associated with predisposition to COPD
Natalia El-Merhie (Borstel, Germany), Martin Wolff, Clemens Ruppert, Andreas Günther, Philip Hansbro, Torsten Goldmann, Susanne Krauss-Etschmann

Pre-congress session Session 64 00:00 - 23:59
E-poster session: Novel molecular markers and targets for asthma phenotypes
Disease(s): Airway diseases
Method(s): Cell and molecular biology  Physiology
Chairs: Alen Faiz (Ultimo (NSW), Australia), Janette K. Burgess (Groningen, Netherlands)

Effect of BPIFA1 replacement on allergen-induced airway hyperresponsiveness
Stephen Tilley (Durham, United States of America), Stephen Tilley, Jada Frisbee, Corey Jania, Camryn Kellogg, Austin Hoke, Jennifer Adouli, Hong Dang, Robert Tarran, Matthew Redinbo, Julianne Huang

Airway gene expression identifies subtypes of Type 2 inflammation in severe asthma
Laurits Frøssing (Copenhagen V, Denmark), Alexander Silberbrandt, Anna Von Bülow, Ditte Kjærsgaard Klein, Marcus Ross Christensen, Viibeka Backer, Kathrine Baines

Heat induced HSP-70 and -90 secretion by bronchial epithelium reduces airway wall remodeling in severe asthma
Lei Fang (Basel, Switzerland), Lei Fang, Junling Li, Eleni Papakonstantinou, Desiree Schumann, Michael Tammi, Daiana Stolz, Michael Roth

CD6 is expressed on human airway and blood innate lymphoid cells (ILCs) and is upregulated by epithelial alarmins IL-33 and TSLP
Taylor Doherty (La Jolla, United States of America), Jana Badrani, Kellen Cavagnero , Cherie Ng, Jeanette Ampudia, Stephen Connelly, Pragnya Desai, Cindy Koziol-White, Reynold Panettieri, Davide Broide, Richard Kurten

Airway hyperresponsiveness in offspring from mothers with allergic airway inflammation during pregnancy is muscarinic receptor and ADAM33 dependent.
Hans Michael Haitchi (Southampton (Hampshire), United Kingdom), Maricke Wandel, Elizabeth R Davies, Joanne F C Kelly, Stephen T Holgate, Donna E Davies

BPIFA1 expression in asthmatics
Camryn Kellogg (Wilmington, United States of America), Julianne Huang, Jada Frisbee, Corey Jania, Joel Parker, Yi-Hsuan Tsai, Samir Kelada, Andrew Ghio, Stephen Tilley

Circadian rhythmicity of sphingolipids in allergic asthma
Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Robert Maidstone, David Ray, Anna Nicolaou, Alexandra Kendall, Hannah Durrington

Investigating the effects of interleukin-33 on rhinovirus A induced changes in asthmatic bronchial epithelial cells
Rebecca M Cooper (Nottingham, United Kingdom), Michael A Portelli, Marco Londei, Christopher E Brightling, Dominick Shaw, Simon R Johnson, David J Cousins, Ian Sayers

Role of microRNAs in regulation of T17-driven airway epithelial barrier dysfunction
Elisabeth Ax (Gothenburg, Sweden), Henric Olsson, Cecilia Lässer, Zala Jevnikar, Madeleine Rådinger

MicroRNA profiling in bronchial biopsies of asthma patients

THE ACTIVITY OF FATTY ACIDS DESATURASES IN MILD AND MODERATE ASTHMA
Yulia Denisenko (Vladivostok, Russian Federation), Tatyan Novgorodtseva, Marina Antonyuk

Periostin and TSLP a potential crosstalk in obstructive airway diseases
Patrycja Nejman-Gryz (Warszawa, Poland), Katarzyna Górska, Magdalena Paplińska-Goryca, Małgorzata Proboszcz, Rafal Krenke
The downstream effects of the 17q12-21 asthma region. Is functional splicing of GSDMB the explanation?
Tessa Kole (Groningen, Netherlands), C.J. Vermeulen, M.E. Ketelaar, R. Buls, G.H. Koppelman, W. Timens, V. Gurvey, H.A.M. Kerstjens, M.C. Nawijn, M. Van Den Berge

Extracellular DNA traps in sputum from severe asthma patients
Yanaika Shari Sabogal Piñeros (Amsterdam, Netherlands), Barbara Dierdorp, Tamara Dekker, Els J. M. Weersink, Rene Lutter

SPHINGOSINE-1-PHOSPHATE AS A KEY INDUCER OF EPITHELIAL MESENCHYMAL TRANSITION IN ASTHMATIC AIRWAYS
Fiorentina Roviezzo (Neaples (NA), Italy), Rosalinda Sorrentino, Giuseppe Spaziano, Bruno D’Agostino, Giuseppe Cirino

Bronchial challenge with D. pteronyssinus changes the ratio of blood eosinophil subtypes and their biological properties in allergic asthma patients
Andrius Januskevicius (Kaunas, Lithuania), Egle Jurkevičiute, Ieva Janulaityte, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaite Zučauska, Jolita Palacyontzie, Kestutis Malakauskas

Cell type and disease specific expression of GPR68 in the human lung
Sabrina Blumer (Basel, Switzerland), Lei Fang, Michael Tamm, Daiana Stolz, Michael Roth

COX-1 driven biosynthesis of PGD2 during activation of human mast cells prevents formation of other prostanoids
Anna Karin Johnsson (Stockholm, Sweden), Jeong-Hee Choi, Elin Römberg, David Fuchs, Johan Kolmert, Mats Hamberg, Barbro Dahlén, Craig E Wheelock, Sven-Erik Dahlén, Gunnar Nilsson

Pre-congress content Session 65 00:00 - 23:59
E-poster session: Inhaler devices in COPD: technical advances, adherence studies and more

Disease(s): Airway diseases
Method(s): General respiratory patient care Pulmonary function testing Public health Pulmonary rehabilitation Epidemiology
Chairs: Richard E. K. Russell (Lymington (Hampshire), United Kingdom), Claudio Sorino (Fino Mornasco (CO), Italy)

Late Breaking Abstract - Nationwide asthma management and disease control in primary versus secondary care - a real-world evidence study
Kjell Erik Julius Hanksson (København N, Denmark), Vibeke Backer, Charlotte Suppli Ulrik

Numerical simulation of the effect of inhalation parameters and disease severity on the deposition of dry powder aerosol drugs in COPD patients
Arpad Farkas (Pomáz, Hungary), Alpár Horváth, Gábor Tomisa, Gabriella Gálfy, János Varga

Developing evidence-based recommendations regarding inhalation technique in patients with COPD
Lotte Hasling Kodbol Jørgensen (Viby J, Denmark), Karoline Liltrup King, Niels Lyhne, Anders Loekke

How can time to COPD exacerbation be delayed? A real-world study comparing two oscillating positive expiratory pressure (OPEP) devices in patients with chronic obstructive pulmonary disease (COPD) or chronic bronchitis
Jason Suggett (London (ON), Canada), Vlad Kushnarev, Dominic Coppolo, Jenny Tse, Keiko Wada

Effectiveness of an educational intervention in order to improve adherence in COPD and asthma ambulatory patients.
Juan Alcantara Fructuoso (Murcia, Spain), Juan Miguel Sánchez Nieto, Irene Fernández Muñoz, Mercedes García-Valera Orea, Juan Carlos Vera Olmos, Javier Fernández Álvarez

COPD exacerbations and adherence to treatment improvement: what goal can be achieved?
Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Kostiantyn Dmytryiev

Spirometry parameters and adherence to COPD treatment: is there association?
Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Kostiantyn Dmytryiev

Disease awareness in COPD: A analyses of clinical parameters and patient-reported outcome from the SAT study
Fulvio Braido (Genova (GE), Italy), Ilaria Baiardini, Paola Rogliani, Pierachile Santus, Marco Contoli, Carla Scognamillo, Angelo Corsico, Nicola Scichilone, Fabio Ferri, Fabiano Di Marco

Investigating the percentage of patients with COPD who could benefit from a change in inhaler
Karoline Liltrup King (Århus N, Denmark), Lotte Jørgensen, Niels Lyhne, Anders Løkke

Lung deposition of two bronchodilators in subjects with (COPD) when administered via standard jet nebulizer or Handihaler® using functional respiratory imaging (FRI).
Edmund Moran (South San Francisco, United States of America), Glenn Crater, Jonathan Ward, Dennis Belmans, Cedric Van Holsbeke
Exercise capacity and dyspnea challenge of adult chronic obstructive lung disease (COPD) patients when using a novel mesh nebulizer compared to traditional jet nebulizer (TJN)
Cheryl Nickerson (Hartstown, United States of America), Dirk Von Hollen, Sara Garbin, Ketah Doty, Jeff Jasko, Chuck Cain

Lung function evaluation and patients' satisfaction with Elpenhaler® device in Greek COPD patients with =1 comorbidity versus patients without comorbidities-AEOLOS study.
Ioanna-Lioutsinta Markou (Pikermi, Greece), Stavros Tryfon, Evaggelia Tsikrika, Georgios Krommidas, Dimitrios Lekkos, Aiakaterini Athanasiou

Preference and quality of life of adult chronic obstructive lung disease (COPD) patients when using a novel mesh nebulizer compared to traditional jet nebulizer (TJN)
Cheryl Nickerson (Hartstown, United States of America), Dirk Von Hollen, Sara Garbin, Ketah Doty, Jeff Jasko, Chuck Cain

NEBULIZER AEROSOL DRUG DELIVERY THROUGH HIGH FLOW NASAL CANNULA IN ADULT PATIENTS
Pasquale Imitazione (Crispano, Italy), Maurizia Lanza, Raffaele Cobuccio, Salvatore Musella, Rosa Cauteruccio, Anna Amunziata, Giuseppe Fiorentino

Four years of targeted education are fundamentally changing the inhalation technique
Vladimir Koblizek (Hradec Králové, Czech Republic), Michal Kopecky, Libor Nevoranek, Tereza Hendrychova, Jiri Vleck

Cost Effectiveness Comparison of a Dry Powder Inhaler to a Metered Dose Inhaler plus Valved Holding Chamber based on an In-Vitro Drug Delivery Model
Mark Nagel (London (ON), Canada), Jason Suggett, Alison Ellery

Computerized measurements of inhalation ability with a dry powder inhaler in patients with severe COPD
Evelina Björk (Stockholm, Sweden), Priya Thind, Mikaela Qvarfordt, Magnus Svartengren, Martin Anderson

Feasibility, compliance and effects of a Mindfulness program on COPD patients
Saida Bensliman (Brussel, Belgium), Vincent Ninnane, Christian Melot

Compliance of pharmacotherapy with GOLD-guidelines: a longitudinal study in patients with COPD
Matteo Bradicich (Basel, Switzerland), Fabian Alexander Grewe, Noriane Andrina Sievi, Maurice Roeder, Thomas Brack, Martin H Brutsche, Martin Frey, Sarosh Irani, Jörg Daniel Leuppi, Robert Turnheer, Christian Friedrich Clarenbach, Malcolm Kohler

Pre-congress content
Session 66
00:00 - 23:59

E-poster session: Occupational exposure as a cause of respiratory disease

- Airway diseases
- Respiratory critical care
- Interstitial lung diseases

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

Chairs: Jordan Minov (Skopje, North Macedonia), Galina P. Orlova (St. Petersburg, Russian Federation)

Monocyte subpopulations, airway inflammation and lung function in patients with occupational chronic obstructive pulmonary disease from exposure to industrial aerosols containing nanoparticles
Lyubov Shpagina (Novosibirsk, Russian Federation), Marina Zenkova, Anatoliy Saprykin, Ilya Shpagin, Olga Kotova, Evgeniya Logashenko, Alfiya Tsygankova, Galina Kuznetsova, Natalya Kamneva, Ekaterina Anikina, Dmitriy Gerasimenko

The role of cell-derived inflammation in metal fume fever - blood count changes after exposure with zinc- and copper-containing welding fumes
Julia Krabbe (Aachen, Germany), Mara Reisgen, Katharina Thomas, Viktor Beilmann, Agnieszka Markert, Benjamin Gerhards, Thomas Kriche, Kathrin Schmidt, Thomas Kraus, Christian Martin, Peter Brand

Inhalation poisoning due to Arsenic and Lead: A case series
Shubham Sharma (Jaipur (Rajasthan), India), Tarang Kulkarni, Sourav Chakraborty, Bhavin Jhankaria, Raja Dhar

Comparison of socioeconomic outcomes and asthma control in patients with work-exacerbated and occupational asthma in São Paulo, Brazil
Lavinia Clara Del Roio (São Paulo (SP), Brazil), Mario Terra-Filho, Clovis Eduardo Santos Galvão, Ana Clara Pereira de Vasconcelos, Flavia Souza E Silva De Almeida, Ubiratan De Paula Santos

Validation process of a questionnaire assessing knowledge level concerning occupational asthma in asthmatic patients
Nidhal Belloumi (la manouba, Tunisia), Meriem Mersni, Imene Bachouch, Mejda Bani, Fatma Chermiti Ben Abdallah, Habib Nouaigui, Soraya Fenniche

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
Breathing pattern disorder masquerading as occupational asthma
Johanna Feary (London, United Kingdom), Julie Cannon, Paul Cullinan

Around the world usage of the Oasys serial PEF plotter for the diagnosis of occupational asthma
Vicky Moore (Birmingham (West Midlands), United Kingdom), Cedd Burge, Gareth Walters, Alastair Robertson, Sherwood Burge

An evaluation of peak expiratory flow measured on the smart peak flow meter
Shirley Coelho (Viana do Castelo, Portugal), Vicky Moore, Gareth Walters, Sherwood Burge

Specific inhalation challenges with chloramines; an updated method
Vicky Moore (Birmingham (West Midlands), United Kingdom), Gareth Walters, Alastair Robertson, Maximillian Thomas, Sherwood Burge

Farming and respiratory health: a cross-sectional study in Thailand
Jate Ratanaichana (Nonthaburi, Thailand), Andre Amaral, Sara De Matteis, Paul Cullinan, Peter Burney

Altered airway and tissue mechanics in patients with byssinosis
Álmos István Schranc (Szeged, Hungary), Gergely H. Fodor, Adam L. Balogh, Roberta Śudy, Robin Forgacs, Zsofia Csorba, Ferenc Petuk, Barna Babik

Chronic obstructive pulmonary disease in workers from different sectors.
Jordan Minov (Skopje, North Macedonia), Sasho Stoletski, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska, Jovanka Karadzinska-Bislimovska

COPD Exacerbation and Occupation History in Agriculture
Da Hye Moon (Chuncheon (Gangwon-do), Republic of Korea), Tae Wan Kim, Woo Jin Kim, Yoon Ki Hong, Myoung Nam Lim

Frequency of chronic respiratory symptoms, lung function impairment, and airway responsiveness - differences between cow breeders and crop farmers
Sasho Stoletski (Skopje, North Macedonia), Jordan Minov, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska, Jovanka Karadzinska-Bislimovska

Employment, treatment and lung function outcomes at 1-year following diagnosis of occupational hypersensitivity pneumonitis
Gareth Walters (Birmingham (West Midlands), United Kingdom), Ngamjit Kongsupon, Geraldine Burge, Alastair Robertson, Vicky Moore, Steven Sadhra, Sherwood Burge

Peculiarities of pulmonary alveolar proteinosis (PAP) due to exogenous factors
Galina P. Orlova (St. Petersburg, Russian Federation), Aleksandra A. Speranskaya, Ivetta V. Dvorakovskaya

Bilateral pneumothorax in silicosis patients, report of 14 cases
Tarek Djenfi (Batna, Algeria), Hamoud Souad, Djebbar Abdelmadjid

Progressive fibrotic phenotype in exogenous toxic alveolitis (ETA)
Galina P. Orlova (St. Petersburg, Russian Federation), Eleonora V. Shapovalova, Natalya S. Yakovleva

Pre-congress content Session 67 00:00 - 23:59
E-poster session: Paediatric asthma

Disease(s): Airway diseases, Sleep and breathing disorders
Method(s): General respiratory patient care, Respiratory intensive care, Pulmonary function testing, Imaging, Physiology, Epidemiology, Public health
Chairs: Nicola Ullmann (Roma (RM), Italy), Christiane Lex (Goettingen, Germany)

Features of anti-inflammatory therapy of bronchial asthma in children with overweight andobesity
Nela Paramonava (Grodno, Belarus)

Early use of nebulised beta2 agonist in the management of acute wheeze in preschool children
Olivia Impey (Edinburgh, United Kingdom), Kenneth A Macleod

Use of a novel Bayesian borrowing statistical method to assess efficacy of mepolizumab in adolescents
Oliver Keene (Uxbridge, United Kingdom), Oliver Keene, Nicky Best, Robert Price, Isabelle Pouliquen

Exercise-induced bronchospasm in asthmatic children. FENO and Body Mass Index relationship
Maria Cristina Gimena Donth Leger (ciudad Autonoma de Buenos Aires, Argentina), Maria Cristina Gimena Donth Leger, Magdalena Vocos, Carlos Velasco Suarez, Marcela Roque, Doris Primrose, Anahi Kruger, Gabriela Andrada, Juan Manuel Figueroa
**Endothelial dysfunction in children and adults with asthma - combined diagnostic approach**
Marcela Kreslová (Plzeň, Czech Republic), Marcela Kreslova, Aneta Sýkorová, Olga Kirchnerová, Petr Jehlička, Ladislav Trefil, Josef Sykora

**Relationship between allergic rhinitis and asthma in the elementary school children in Bandar Lampung, Indonesia.**
Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Hetty Rusmini, Arti Febriani, Nelly Muslimah

**Clinical and Functional State of Asthmatic Children: Impact of Overweight-Obesity and Sleep Disordered Breathing**
Maria Cristina Gimena Donth Leger (ciudad Autonoma de Buenos Aires, Argentina), Maria Cristina Gimena Donth Leger, Gabriela Andrade, Anahi Kruger, Doris Primrose, Magdalena Vocos, Carlos Velasco Suarez, Marcela Roque, Juan Manuel Figueroa

**Prevalence of vitamin D deficiency in children with asthma. Multicenter study.**
Elena Kondratyeva (Moscow, Russian Federation), Yuri Mizernitsky, Natalya Ilyenkova, Anna Bogorad, Elena Zhekaita, Svetlana Dyakova, Leonid Klimov, Svetlana Dolbnya, Viktoria Kuryaninova, Yulia Melyanovskaya, Aisa Zodbinova

**Asthma symptom control, biomarkers of airway inflammation and spirometry in a cohort of Sri Lankan children**
Ridma Jayarathna (Kent, United Kingdom), W A D Lakmali Amarasiri, Kumudu Weerasekara

**Microcirculatory changes in children with bronchial asthma depending on the allergological history.**
Pavel Berezhanskiy (Uspenskoe, Russian Federation), Natalia Tataurshchikova

**Influence of family education style in children with severe asthma.**
Olga Murtazaeva (Moscow, Russian Federation), Olga Zaytseva, Evelina Lokshina, Svetlana Zaytseva

**Bronchial hyperresponsiveness in schoolchildren suffer from early and late onset severe asthma**
Mykola Garas (Cherivtsi, Ukraine)

**The relationship of bronchoconstriction and the parameters of the atrial component of the electrocardiogram in children with bronchial asthma.**

**Relationship between nasal respiratory function and external respiratory function in children with asthma**

**Validation of Hindi version of the childhood asthma control test (C-ACT) in Indian children**
Pravin Kumar (Jodhpur (Rajasthan), India), Chirag Thakur, Jagdish Goyal

**Changes in the microcirculatory system of children with bronchial asthma**
Anita Denisova (Moscow, Russian Federation), Veronika Denisova, Natalia Geppe, Natalia Kolosova, Irina Grebeneva

**Assessment of validity and efficacy of a PROM in preschool wheeze (Wheeze and me assessment tool)**
Heidi Makrinioti (Athens, Greece), Alice E.M. White, Nour El-Hadi, Polly Robinson, Niamh Mclaughlin, Mando Watson, Andrew Bush, Dougal Hargreaves

**Who are the children with increased faractional exhaled nitric oxide?**
Kamil Barański (Katowice, Poland), Grzegorz Brożek, Jan Zejda

**Clinically meaningful medium-term variability of fractional exhaled nitric oxide in a UK paediatric cohort**
Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Lesley Lowe, Angela Simpson, Clare Murray, Stephen Fowler

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**Pre-congress content **
**Session 68 00:00 - 23:59**

**Disease(s)**: Airway diseases

**Method(s)**: General respiratory patient care, Pulmonary function testing, Respiratory intensive care, Epidemiology, Cell and molecular biology, Physiology, Transplantation

**Chairs**: Edward McKone (Dublin 4, Ireland), François Vermeulen (Leuven, Belgium)

**Lymphocyte responses to Mycobacterium tuberculosis and Mycobacterium bovis are similar between BCG-vaccinated patients with cystic fibrosis and healthy controls**
Renan Mauch (Campinas (SP), Brazil), Paulo Cesar Alves, Carlos Emilio Levy, José Dirceu Ribeiro, Antonio Fernando Ribeiro, Niels Hoiby, Marcos Tadeu Nolasco Da Silva
Targeted exhaled breath analysis for detection of Pseudomonas aeruginosa in cystic fibrosis patients
Renate Kos (Soest, Netherlands), Paul Brinkman, Anne H Neerinck, Tamara Paff, Marije G Gerritsen, Ariane Lammers, Aletta D Kraneveld, Harry G M Heijerman, Jane C Davies, Hettie M Janssens, Christof J Majoor, Els J Weersink, Peter J Sterk, Eric G Haarman, Lieuwe Bos, Anke H Maintland-Van Der Zee

Comparative in vitro activity of fluoroquinolones against P. aeruginosa isolated from Greek CF patients
Despoina Ioannidou (Thessaloniki, Greece), Areti Tychala, Eleni Fanidiou, Chrisi Michailidou, Katerina Manika, Elpis Hatziaiorgou, Ioannis Kioumis

Clinics of Cystic Fibrosis Patients with Unusual Bacteria Isolated from Respiratory Cultures
Dilber Ademhan Tural (Ankara, Turkey), Beste Oezsezen, Birce Sunman, Gulsen Hazirohan, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugr Ozcelik, Nural Kiper

Myroides odoratus another one from the new emerging pathogens in cystic fibrosis - case report
Guergana Petrova (Sofia, Bulgaria), Dimitrinka Miteva, Tanya Strateva

Changes in local and systemic inflammatory markers in cystic fibrosis patients chronically infected with Burkholderia cepacia complex
Vassily Shmarin (Moscow, Russian Federation), Daria Pukhalskaya, Sergey Semykin, Lucine Avakian, Nataliya Kashirskaya, Galina Shmarina, Vladimir Alioshkin

A review of treatment regimens at first isolation of PA in a single cystic fibrosis center
Yasemin Gökdemir (Istanbul, Turkey), Huseyin Hakan Mursaloglu, Can Akin, Cansu Yilmaz, Pinar Ergenekon, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Aysegul Karahasan, Bulent Karadag

Usefulness of measurement of tobramycin levels in the era of once daily iv-treatment
Folke Brinkmann (Bochum, Germany), Anne Schlegtendal, Stefanie Dillenhoefer, Cordula Koerner-Rettberg

Predictors of eradication failure at first isolation of MRSA in cystic fibrosis patients
Yasemin Gökdemir (Istanbul, Turkey), Huseyin Hakan Mursaloglu, Can Akin, Cansu Yilmaz, Pinar Ergenekon, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Aysegul Karahasan, Bulent Karadag

Altered composition of Innate lymphoid cells in BAL and blood of adult patients with cystic fibrosis towards ILC1
Hendrik Beckert (Essen, Germany), Sarah Plicht, Sivagurunathan Sutharsan, Jean de Dieu Harelimana, Marc Jacobsen, Christian Taube, Norman Naush

Use of BIOFIRE® Pneumonia Panel Plus on sputum from patients with Cystic fibrosis or PCD
Philip Koliopoulos (Mainz, Germany), Julius Jurak, Sebastian Schlottner, Oliver Nitsche, Kristin Bohn, Daniel Schreiner, Stephan Gehring, Krystyna Poplawska

The efficacy and tolerability of inhaled hypertonic saline in children with cystic fibrosis
Katerina Skriabina (Dnipro, Ukraine), Svitlana Ilchenko, Anastasiia Fialkovska

Clinical surveys with nebulised hypertonic saline (HS) in CF children
Veronika Bernek (Starnberg, Germany), Veronika Bernek, Rosina Ledermüller

The Effects of Nebulizer Cleaning and Disinfection Training On The Knowledge Levels and Practises of the Caregivers of Patients with Cystic Fibrosis
Cansu Yilmaz Yegit (Istanbul, Turkey), Pinar Ergenekon, Hakan Mursaloglu, Gamze Tastan, Burcu Suzer Uzunoglu, Yasemin Gokdemir, Ela Erdem Eralp, Nurcan Duman, Aysegul Karahasan, Fazilet Karakoc, Bulent Karadag

Immunohistochemical evidence of increased neutrophil swarms in Cystic Fibrosis lung removed at transplantation
Kasim Jiwa (Newcastle-upon-Tyne, United Kingdom), Chris Ward, Gareth Parry, Malcolm Brodlie, Jim Lordan, Andrew Fisher, James Garnett

Clinical efficacy data for new diagnostic tool for the selection of the most effective antibiotics for patients with cystic fibrosis
Maria Vecherkovskaya (Saint Petersburg, Russian Federation), George Tetz, Kristina Kardava, Tatiana Gembitskaya, Victor Tetz
Impact of comorbidities on the deterioration of skeletal muscle dysfunction among COPD patients
Vitalii Poberezhets (Vinnytsia, Ukraine), Szymon Skoczyński, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobiczyk, Yurii Mostovoy, Adam Barczyk

Evaluation of quadriceps muscle function in patients with moderate to severe COPD
Maria Dolores Domingez Lopez (Sevilla, Spain), Maria Del Pilar Cejudo Ramos, David Dr. David Naranjo-Hernández, Gerardo Barvarob-Rostán, Rosa Vázquez, Francisco Ortega Ruiz, Laura M Roa, Eduardo Márquez Martín, Javier Reina-Tosina

Barriers towards physical activity in COPD: a quantitative cross-sectional, questionnaire-based study
Sajitha Sophia Sritharan (Aarhus V, Denmark), Elisabeth Bomholt Østergaard, Maria Elkjær, Louise Sand, Ole Hilberg, Søren Helbo, Anders Løkke

Exploring beliefs of Pulmonary Rehabilitation modes of delivery
Amy Barradell (Leicester (Leicestershire), United Kingdom), Michael Larkin, Sally Singh

Effort tolerance and effectiveness of pulmonary rehabilitation in COPD patients with varying degrees of dyspnea during ADL
Mara Paneroni (Mazzano (BS), Italy), Laura Bertacchini, Carla Simonelli, Alberto Malovini, Bruno Balbi, Maria Aliani, Piero Ceriana, Antonio Spanevello, Claudio Fracchia, Mauro Maniscalco, Giacomo Corica, Nicolino Ambrosino, Michele Vitacca

Walking assessments as the predictor of acute respiratory failure in the interstitial lung disease patients.
Ryo-suKE Hirabayashi (Kobe, Japan), Yusuke Takahashi, Kazuma Nagata, Kyousuke Wakata, YusuKe Shima, Yuri Shimada, Megumu Osaki, Atsushi Matsunashi, Kazutaka Hosoya, Yuki Sato, Atsushi Nakagawa, Ryo Tachikawa, Keisuke Tomii

Effect of pulmonary rehabilitation on exercise tolerance and functional class in patients with COPD and heart failure
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Leslie Verdeja Vendrell, Dulce Gonzalez Islas, Arturo Orea Tejeda, Martha Elena Quijano Ramirez, Rocío Nayeli Sanchez Santillan, Susana Galicia Amor, Juan Carlos Garcia Hernandez, Esperanza Trejo Mellado, Itzel Ameyalli Sandoval Sanchez, Oscar Ubaldo Martinez Reyna, Yael Ramiro Gastelum Ayala, Nathalie Martinez Luna, Ilse Perez Garcia, Valeria Ariadna Martinez Vazquez

Are the gains due to pulmonary rehabilitation in idiopathic pulmonary fibrosis and other interstitial lung diseases the same?
Ipek Ozmen (süreyyapaşa gh, Turkey), Elif Yildirim, Meral Karakus, Murat Öztürk, Rüya Aydin, Emre Sahal

Three-year observation on pedometer intervention to improve daily physical activity and QOL in patients with stable COPD.
Yuko Sano (Tokyo, Japan), RokoKu Matsuoka, Yoko Sato, Shinobu Kimura, Shyoji Mihara, Hajime Kurosawa

Personality traits, physical activity and sedentary behaviors in patients with chronic pulmonary diseases
Pauline Caille (LODEVE, France), Yannick Stephan, Nelly Héraud

Effects of a respiratory rehabilitation program over pulmonary hypertension (PH) and other right ventricular function measurements in a chronic obstructive pulmonary disease (COPD) population
Cristian Tiano (Donostia-San Sebastian, Spain), Itxaso Sayago Reza, Jaime Navarro, Luis Sollet

Home-based fall prevention for older adults with COPD: a feasibility study
Marla Beauchamp (Hamilton, Canada), Marla Beauchamp, Cindy Ellerton, Dina Brooks, Roger Goldstein, Stuart Pugsley, Julie Richardson, Diana Hatzoglou

Predicting daily physical activity with using 6MWT in patients with chronic interstitial lung diseases.
Chieko Yoshida (Kumamoto, Japan), Aiko Masunaga, Sho Saeki, YusuKe Tomita, Hidenori Ichiyasu, Takuro Sakagami

Facilitators and barriers of adherence to exacerbation action plans in patients with COPD and comorbidities: a qualitative study
Jade Schrijver (Enschede, Netherlands), Suzanne Hoftijzer, Tanja Effing, Marjolein Brusse-Keizer, Job Van Der Palen, Paul Van Der Valk, Anke Lenferink

Addition of neuromuscular electrical stimulation to conventional pulmonary rehabilitation treatment in patients with COPD
Vicente Andrs Benavides Córdoba (Cali, Colombia), Lina Marcela Orozco, Ricardo Mosquera, Diana Guerrero Jaramillo, Vanessa Vidal, Esteban Portugeuz, Paola Tejada, Julian Andrs Rivera Motta

Non-responders to outpatient pulmonary rehabilitation: a retrospective, controlled cohort study
Kristina Gugg (Krems an der Donau, Austria), R. H. Zwick

Estimating the effectiveness of pulmonary rehabilitation for different severity of COPD, ILD and IPF
Blanka Tóth (Pilisvörösvár, Hungary), Mária Kerti, János Tamás Varga
50% of the physiological benefit of training during Pulmonary Rehabilitation is achieved after only a few sessions. Martine Favre (France), Bernard Aguilaniu, Jonathan Levesque, Frederic Herengt, Christophe Brosson, Jean Marie Grosbois, Alain Bernady, Antony Bender, Pascale Surpas, Antoine Guerder, Pei Zhi Li, Anestis Antoniadis, Thomas Similowski

**HEART VARIABILITY IN THE PRESENCE OF PSYCHOLOGICAL STRESS AND QUALITY OF LIFE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE**

Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez-Hernández, Laura Arely Martínez-Bautista, Karen Aide Santillán-Reyes, Guadalupe Lizzbett Luna-Rodriguez, Dulce González-Islas, Arturo Orea Tejeda

**The effectiveness of pulmonary rehabilitation in patients diagnosed with interstitial pulmonary fibrosis**

Elif Özarı Yıldırım (Istanbul, Turkey), Ipek Ozmen, Meral Karakis, Murat Özturk, Emre Sahal, Ruya Aydıñ, Reyhan Yıldız, Huriye Berk Takır, Tulun Sevim

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**Pre-congress content**

**Session 70 00:00 - 23:59**

E-poster session: Biomarkers and mechanistic aspects of idiopathic pulmonary fibrosis

**Disease(s):** Interstitial lung diseases

**Method(s):** Cell and molecular biology, Imaging, General respiratory patient care, Epidemiology, Physiology, Pulmonary function testing

**Chairs:** Bruno Crestani (Paris, France), Antje Prasse (Hannover, Germany)

**Increased monocyte count and red cell distribution width represent negative prognostic markers in patients with Idiopathic Pulmonary Fibrosis.**


**Monocyte count and decline in forced vital capacity (FVC) in patients with IPF**

Argyris Tzouveleakis (Athens, Greece), Toby M Maher, Nicole Goh, Michael Kreuter, Vincent Cottin, Birgit Schinzel, Leticia Orsatti, Tamera J Corte

**The role of monocyte count on monitoring patients with idiopathic Pulmonary Fibrosis under antifibrotic treatment**

David Jorge Araújo Barros Coelho (Braga, Portugal), Catarina Sousa, Maria Jacob, Helder Novais-Bastos, Natalia Melo, Patricia Caetano Mota, Antonio Morais

**Distinctive polarization of circulating classical monocytes between idiopathic pulmonary fibrosis and idiopathic nonspecific interstitial pneumonia.**

Masahiro Yamashita (Morioka (Iwate Prefecture), Japan), Yu Utsumi, Hiromi Nagashima, Hiroo Nitanai, Kohei Yamauchi

**Macrophage-derived exosomes attenuate fibrosis in airway epithelial cells through delivery of anti-fibrotic miR-142-3p**

Julien Guiot (Liège, Belgium), Monique Henket, Fanny Gester, Edouard Louis, Michel Malaise, Renaud Louis, Ingrid Struman, Sebastien-Maxon Njock

**Inflammasome activation in airway macrophages and the lung microbiome in IPF**

Athina Trachalaki (London, United Kingdom), Eliza Tsitoura, Rachele Invernizzi, Semeli Mastrodimou, Eirini Vasarimidi, Adam Byrne, Toby M. Maher, Katerina Antoniou, Markus Polke, Lars Kehler, Jack Gauldie, Stephen Fowler

**Collagen1a1 mRNA expression in BAL cells is associated with disease progression and poor survival in ILDs**

Eliza Tsitoura (Heraklion (Crete), Greece), Athina Trachalaki, Eirini Vasarimidi, Semeli Mastrodimou, Maria Kokosi, Konstantinos Karagiannis, George Margaritopoulos, Nikolaos Tzanakis, Athol U. Wells, Katerina M. Antoniou

**Exhaled volatile organic compounds in idiopathic pulmonary fibrosis and disease progression**

Conal Hayton (Manchester, Greater Manchester, United Kingdom), Dayle Terrington, Waqar Ahmed, Iain White, Max Wilkinson, Kirti Vekaria, Nazia Chaudhuri, Andrew Wilson,colm Leonard, Stephen Fowler

**Essential trace element levels in IPF patients: a case control study**

Gülden Baekeçi Şarlı (Ankara, Turkey), Cebralı Şimşek, Bilge Akgündüz, Vugar Ali Türksoy, Yetkin Ağaçkıran, Nevriye Tezer, Doğuş Özdemir

**IgG4 as a potential biomarker of acute exacerbations in ILD**

Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Nicolas Kahn, Vivien Somogyi, Markus Polke, Lars Kehler, Jack Gauldie, Michael Kreuter
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<td><strong>E-poster session:</strong> Non-idiopathic pulmonary fibrosis interstitial lung diseases: mechanisms, diagnosis and treatment</td>
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<td><strong>Disease(s):</strong>   Interstitial lung diseases   Airway diseases</td>
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<td><strong>Method(s):</strong>   Transplantation   General respiratory patient care   Pulmonary function testing   Cell and molecular biology   Imaging   Endoscopy and interventional pulmonology   Epidemiology</td>
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<td><strong>Chairs:</strong>   Phil Molyneaux (London, United Kingdom), Martina Bonifazi (Ancona (AN), Italy)</td>
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<td><strong>Efficacy of antifibrotics in chronic hypersensitivity pneumonitis. A 3 year real-life observational study</strong>   Vasilios Tzilas (Athens, Greece), Argyrios Tzouvelekis, Evangelos Bouros, Theodoros Karampitsakos, Maria Ntassiou, Eleni Avdoula, Athina Trachalaki, Katerina Antoniou, Demoshlenes Bouros</td>
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<td><strong>Effect of Antifibrotic Therapies in Patients with Interstitial Pneumonia with Autoimmune Features</strong>   Alexandra Nagy (Mosonmagyaróvár, Hungary), Enikő Bárczi, Abigél Farkas, Anikó Bohács, Krisztiina Vincze, Noémi Eszes, Tamás Erdélyi, Adam Tarnoki, David Tarnoki, Veronika Müller</td>
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<td><strong>Consistent effect of nintedanib on reducing FVC decline across interstitial lung diseases (ILDs)</strong>   Francesco Bonella (Düsseldorf, Germany), Toby M. Maher, Vincent Cottin, Claudia Valenzuela, Marlies Wijsenbeek, Florian Voss, Klaus B. Rohr, Susanne Stowasser</td>
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<td><strong>Does excluding subjects with features similar to IPF affect the results of the INBUILD trial of nintedanib?</strong>   Luca Richeldi (Roma, Italy), Athol U. Wells, Vincent Cottin, Bruno Crestani, Maria Molina Molina, Rainer-Georg Goedlner, Susanne Stowasser, Rozsa Schlenker-Herceg, Yoshikazu Inoue</td>
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<td><strong>High molecular weight hyaluronic acid decorated-liposome as targeted drug delivery system for fibrotic lung disorders</strong>   Vanessa Frangipane (Pavia, Italy), Laura Pandolfi, Alessandro Marengo, Nicolas Tsapis, Sara Bozinni, Maura D’Amato, Monica Morosini, Serge Mbiandjeu, Paolo Maria Soprano, Manuela Monti, Giuditta Comolli, Alessandra Balduini, Silvia Arpicco, Elias Fattal, Federica Meloni</td>
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<td><strong>Alterations in 24 hours blood pressure monitoring in patients with prolonged hypoxia due to interstitial lung disease</strong>   Manuel Abraham Gómez Martínez (Mexico City, Mexico), Valeria Ariadna Martínez Vázquez, Martha Elena Quintero Martínez, Arturo Orea Tejeda, Dulce Gonzalez Islas, Rocio Sanchez Santillan, Yael Ramiro Gastelum Ayala, Oscar Ubaldo Martinez Reyna, Nathalie Martinez Luna, Ilse Pérez García, Ampayali Sandoval Sanchez, Leslie Verdeja Vendrell, Ivette Buendia Roldan, Mayra Mejia Avila, Robinson Robles Hernandez</td>
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Many-faced histological patterns of hypersensitivity pneumonia: the insights to diagnostics  
Maria Samsonova (Moscow, Russian Federation), Natalia Trushenko, Andrey Cherniaev, Kirill Mikhailicheko, Janna Omarova, Sergey Avdeev

Concordance of pre transplant radiological diagnosis with posttransplant explant histology of interstitial lung disease (ILD): A single centre study from India.  
Sandeepa H. S. (Bangalore (Karnataka), India), Vijil Rahulan, Apar Jindal, Vishwanath Bellad, Bhaskar B V, Shivaprakash S, Prabhat Dutta, Pavan Yadav, Sandeep Attawar

Usefulness and safety of transbronchial lung cryobiopsy for reassessment of treatment in the clinical course of diffuse lung disease  
Yozo Sato (Yokohama, Japan), Tomohisa Baba, Katsuyuki Higa, Ryota Ootoshi, Ryota Shintani, Tsuneyuki Oda, Hideya Kitamura, Yasushi Okudela, Tae Iwasawa, Tamiko Takemura, Takashi Ogura

CAR T cells-associated delayed lung toxicity - a case series  
Louise Bondeelle (Paris, France), Roberta Di Blasi, Laila Samy, Lorea Aguinaga, Gwenael Lorillon, Sophie Bernard, Catherine Thieblemont, Anne Bergeron Lafaurie

Effect of tocilizumab on interstitial lung disease (ILD) in patients with rheumatoid arthritis (RA)  
Naotatsu Otsuiji (soka, Japan), Kumiya Sugiymamu, Hajime Arifuku, Kentaro Nakano, Hiroyoshi Watanabe, Tomoshige Wakayama, Kenya Koyama, Hirokuni Hirata, Yasutugu Fukushima

Impulse oscillometry (IOS) in Interstitial Lung Diseases: clinical- functional- radiological correlations.  
Sara Soave (Rimini, Italy), Federico Bellini, Ottavia Nori, Aldo Carnevale, Marco Contoli, Alberto Papi, Gian Luca Casoni

Experimental modeling of lung involvement due to systemic sclerosis.  
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Liubomyr Zaiats, Roman Yatsyshyn

Seventeen cases of “IgG4-positive interstitial pneumonia” characterized by elevated serum IgG4 levels and IgG4-positive plasma cell infiltrations in the lungs  
Masamichi Komatsu (Matsumoto, Japan), Hiroshi Yamamoto, Shoko Matsui, Tomohisa Baba, Atsushi Miyamoto, Tomohiro Handa, Keisuke Tomii, Yuko Waseda, Masashi Bando, Haruyuki Ishii, Yasunari Miyazaki, Tae Iwasawa, Tateshi Johokh, Akihiko Yoshizawa, Yasuhiro Terasaki, Akira Hebisawa, Tamiko Takemura, Yoshinori Kawabata, Masayuki Hanaoka, Takashi Ogura

Bioelectrical impedance analysis (BIA) and physical fitness in patients with idiopathic pulmonary fibrosis (IPF)  
Mariana Bocchino (Napoli (NA), Italy), Lorena Gallotti, Anna Agnese Stanziola, Ada Di Gregorio, Ludovica capiteili, Francesco De Blasio, Paola Alicante, Luca Scaifi, Alessandro Sanduzzi Zamparelli

The predictors of diffuse alveolar damage in autopsy cases with acute respiratory distress syndrome  
Ryousuke Inai (Tokyo, Japan), Ro Shoei, Manabu Murakami, Kohei Okafuji, Atsushi Kitamura, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

Diagnostic accuracy and safety of inhalation challenge tests for bird fancier’s lung  
Zhuan Jin (Kamogawa, Japan), Akhiro Shiroshita, Yu Tanaka, Kei Nakashima, Yuki Kataoka

INTERSTITIAL LUNG DISEASE ASSOCIATED WITH CONNECTIVE TISSUE DISEASE (CTD-ILD): RETROSPECTIVE MULTICENTRIC STUDY  
Marta Garcia Moyano (Barakaldo, Spain), Florencia Vivero Acosta, Daniel Martin Iglesias, Juan Enghelhammer, Diane Lancellotti, Adrián Gaser, Federico Campins, Javier Sebastiani, Pablo Malfante, Guillermo Ruiz Irastorza

E-poster session: Clinical aspects of idiopathic pulmonary fibrosis

Clusters of comorbidities in idiopathic pulmonary fibrosis  
Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Ole Hilberg, Saher Shaker, Jesper Romhild Davidsen, Finn Rasmussen, Elisabeth Bendstrup

TORVAN VERSUS GAP: WHICH PERFORMS BETTER?  
Filomena Simone (, Italy), M L. Bocchino, L Capitelli, K Del Vecchio, A Laricchiuta, G Scioscia, M P. Fuschino Barbaro, D Lacedonia

2-Year survival of patients with IPF with or without GERD: a study using VA national database  
fei tang (Hefei, China), Carol Ramos, Mehdi Mirsaiedi, Robert M. Jackson
Unraveling unclassifiable interstitial lung disease - a multicenter approach
Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Charlotte Hyldgaard, Sissel Kronborg-White, Claudia Ganter, Michael Kreuter, Elisabeth Bendstrup

Diagnosis and treatment of new idiopathic interstitial pneumonias cases: Analysis using the Japanese Registry.

A review of patients following a diagnosis of unclassified interstitial lung disease (ILD) at a tertiary centre
Fiona Thompson (Portsmouth (Hampshire), United Kingdom), Tim Wallis, Katarina Pontoppidan, Chris Breerton, Eleanor Reid, Benjamin Welham, Mark Jones, Sophie Fletcher

Interstitial pneumonia with autoimmune features (IPAF): the relationship between radiological and clinical features
Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Alisa Yanakaeva, Denis Konovalov, Sergey Moiseev

Health resource utilisation due to IPF exacerbations in Spain: prospective, observational, multicentric study (OASIS study)
Ana Dolores Romero Ortiz (Granada, Spain), Ana Villar, Esteban Cano-Jiménez, Maria Jesús Rodriguez-Nieto, Silvia Armengol, Alba Ramon, Marta Morros

Idiopathic Pulmonary Fibrosis behavior in the aged population- is it different?
Omar Hakrush (Nazareth-Ilit, Israel), Sonia Schneer, Yochai Adir

Gender differences in idiopathic pulmonary fibrosis: are men and women equal or not?

Preserved forced vital capacity is not always representing early IPF

Anxiety and depression in ILD and IPF patients. Is there a difference?
Katerina Markopoulou (Thessaloniki, Greece), Georgia Kounti, Christos Tsantiridis, Eirini Tsapakidou, Christos Karachristos, Georgios Babalis, Adamantios Chloros

The burden of idiopathic pulmonary fibrosis (IPF): a multimodal study of prevalence, healthcare utilization and survival
Wei Ling Chia (Leeds, United Kingdom), Frances Harrison, Thomas Hartley, David Szapiro, Devesh Dhasmana

Idiopathic pulmonary fibrosis (IPF): the patient journey
Vincent Cottin (Lyon, France), Francesco Bonella, Mark Small, James Siddall, Jonathan Langley, Yoshikazu Inoue, Lisa Lancaster

Psychological factors predictive of quality of life in patients with interstitial pulmonary disease
Viridiana Peláez-Hernández (Mexico City, Mexico), Viridiana Peláez-Hernández, Laura Arely Martinez Bautista, Karen Aide Santillan Reyes, Guadalupe Lizzbett Luna Rodriguez, Karla Leticia Rosales Castillo, Arturo Orea Tejeda, Nathalie Martinez Luna

Clinical burden of idiopathic pulmonary fibrosis (IPF): physician and patient perception
Francesco Bonella (Düsseldorf, Germany), Yoshikazu Inoue, Mark Small, James Siddall, Jonathan Langley, Vincent Cottin, Lisa Lancaster

Responsiveness and minimal clinically important difference of K-BILD and SGRQ-I
Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Ole Hilberg, Saher Shaker, Jesper Remhild Davidsen, Elisabeth Bendstrup

Burden of idiopathic pulmonary fibrosis (IPF) on quality of life (QOL), work productivity, and healthcare use
Yoshikazu Inoue (Osaka, Japan), Vincent Cottin, Mark Small, James Siddall, Jonathan Langley, Francesco Bonella, Lisa Lancaster
E-poster session: News on diagnosis and therapy of idiopathic pulmonary fibrosis

**Disease(s):** Interstitial lung diseases  Airway diseases

**Method(s):** General respiratory patient care  Pulmonary function testing  Imaging  Endoscopy and interventional pulmonology  Pulmonary rehabilitation  Epidemiology  Physiology

**Chairs:** Tiago Alfaro (Coimbra, Portugal), Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

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**Yoga in patients with fibrosing interstitial lung diseases - a feasibility trial**
Michael Kreuter (Heidelberg, Germany), Linda Wasmuth, Mareike Kotzerke, Simone Hummler, Rembert Koczulla, Nikola Stenzel, Claudia Ganter

**Is Pulmonary Rehabilitation A Savior In Idiopathic Pulmonary Fibrosis?**
Seher Satar (Ankara, Turkey), Ipek Candemir, Pinar Ergun, Harun Karamanli

**Feasibility of a cardiopulmonary exercise test (CPET) derived high-intensity interval training programme (HIIT) in idiopathic pulmonary fibrosis (IPF)**
Tim Wallis (Romsey (Hampshire), United Kingdom), Katarina Pontoppidan, Kerry Gove, David Hill, James Cullinane, Fiona Thompson, Christopher Breton, Anna Freeman, Sophie Fletcher, Michael Grocott, Mark Jones, Sandy Jack

**Measuring patient activation in an interstitial lung disease (ILD) population: an exploratory study**
Anne-Marie Russell (London, United Kingdom), Raminder Aul, Arnab Datta, Melissa Wickremasinghe

**Outcome at Week 12 from three RCTs of sildenafil with and without antifibrotics in advanced IPF**
Juergen Behr (München, Germany), Steven D. Nathan, Sergio Harari, Wim A. Wyuts, Klaus-Uwe Kirchgaessler, Monica Bengus, Frank Gilberg, Athol U. Wells

**Treatment efficacy of idiopathic pulmonary fibrosis depending on the dose difference of pirfenidone**
yuneyoung shin (Seoul, Republic of Korea), Choon-Taek Lee, Jae Ho Lee, Ho Il Yoon, Young-Jae Cho, Jong Sun Park, Yeon Joo Lee, Sung Yoon Lim, Yung Hee Lee, Sung Young Choi, Yeon Wook Kim, Byoung Soo Kwon

**Pirfenidone side-effect risk stratification: targeting nursing support at a single UK prescribing centre**
Carmine Ruggiero (Oxford, United Kingdom), Sarah J Poole, Rachel K Hoyles

**Plasma MFGE8 concentrations rapidly respond to single doses of the antifibrotic integrin antagonist IDL-2965 in healthy volunteers (HVs)**
Williamson Bradford (Brisbane, United States of America), Ari Gershman, Chris Rubino, Jim Bush, Scott Seiwert, Tonya Marmon, Sharleen Lim, Karl Kossen, Toby Maher

**INTEGRIS-IPF: a 12-week, Phase 2a study evaluating the safety, tolerability and pharmacokinetics of PLN-74809 in participants with IPF**
Eric Lefebvre (San Francisco, United States of America), Bernard Coulie, Marzena Jurek, Jonathan Bellini, Fiona Cilli, Simon Wong, Martin Decaris, Scott Turner, Eric Park

**Impact of bisphosphonate (BP) use on lung function decline and treatment response in patients (pts) with idiopathic pulmonary fibrosis (IPF)**
Francis McCormack (Cincinnati, United States of America), Ming Yang, Elizabeth A. Morgenthien, Cindy Burg, Judith A. Axmann, John L. Stauffer

**Idiopathic pulmonary fibrosis (IPF): observations from a Phase 2 trial of GLPG1205 (PINTA)**
Irina Ruxanda Strambu (Bucuresti (Sector 5), Romania), Liesbeth Fagard, Paul Ford, Tom Van Der Aa, Angela De Haas-Amatsaleh, Eva Santermans, Christian Seemayer

**Computed Tomography Findings as Determinants of Pulmonary Function Tests in Fibrotic Interstitial Lung Diseases**
David Lang (Cleveland, United States of America), Kaveh Akbari, Andreas Horner, Magdalena Hepp, Bernhard Kaiser, Herwig Pieringer, Michael Studnicka, Bernd Lamprecht

**Evolution of the ‘Indeterminate UIP’ HRCT pattern; a cohort snapshot**
Andrew Achaiah (Oxford, United Kingdom), Andrea Pereira, Harriet Bothwell, Amila Rathnapala, Kritika Dwivedi, Rosie Barker, Rachel Hoyles, Ling-Pei Ho

**Single-arm observational study of a mobile app + home spirometry in idiopathic pulmonary fibrosis**
Lynn Fox (Dublin 7, Ireland), Lavinia Mcleod, Anne-Marie Russell, Colin Edwards, Katherine O'Reilly
eHealth in pulmonary fibrosis: an international survey among healthcare providers and patients
Gizal Nakshbandi (Rotterdam (ZH), Netherlands), Catharina Moor, Joachim Aerts, Marlies Wijsenbeek

Diagnostic value of cryobiopsy in patients with interstitial lung diseases integrating bronchoalveolar lavage, radiologic and clinical data
Katrin Esther Hostettler (Basel, Switzerland), Spasenija Savic, Lukas Bubendorf, Peter Grendelmeier, Kathleen Jahn, Daiana Stolz, Jens Bremerich, Michael Tamm

Concurrent validity among three field tests and the cardiopulmonary exercise testing in patients with idiopathic pulmonary fibrosis.
Deborah Dos Reis Estrella (Belo Horizonte (MG), Brazil), Hugo Pereira, Eliane Viana Mancuzo, Giane Samora, Bruna Silveira, Anna Pataro, Verônica Parreira

Pre-congress content Session 74 00:00 - 23:59
E-poster session: Predictive markers of progression in connective tissue disease-associated interstitial lung disease and hypersensitivity pneumonitis

Disease(s): Interstitial lung diseases Pulmonary vascular diseases
Method(s): General respiratory patient care Epidemiology Imaging Pulmonary function testing Cell and molecular biology Public health
Chairs: Elena Bargagli (Siena, Italy), John Mackintosh (Brisbane (QLD), Australia)

Progressive Phenotype in Chronic Hypersensitivity Pneumonitis
Filipa Lemos e Aguiar (Paredes, Portugal), Hélder Novais Bastos, Natália Melo, Patricia Mota, António Morais

Pleuroparenchymal fibroelastosis in systemic sclerosis: prevalence and prognostic impact
Martina Bonifazi (Ancona (AN), Italy), Nicola Sverzellati, Eva Negri, Joseph Jacob, Ryoko Egashira, Sara Piciuccci, Federico Mei, Angelo De Lauretis, Dina Visca, Nicoleta Goh, Matteo Bonini, Carlo La Vecchia, Felix Chua, Vasilios Kouranos, George Margaritopoulos, Maria Kokosi, Toby M. Maher, Stefano Gasparini, Armando Gabrielli, Athol U Wells, Elisabetta Renzoni

Destructive bronchiolitis: a characteristic pathological feature of interstitial lung disease preceding the onset of rheumatoid arthritis
Midori Sato (Meguro-ku, Tokyo, Japan), Erina Tabata, Tamiko Takemura, Takafumi Yamaya, Masato Asaoka, Takuma Katano, Katsuyuki Higa, Yozo Sato, Kensuke Uchida, Ryota Ootsu, Ryota Shintani, Hiroko Okabayashi, Satoshi Ikeda, Takashi Niwa, Tsuneyuki Oda, Ryo Okuda, Akimasa Sekine, Hideya Kitamura, Tomohisa Baba, Shigeru Komatsu, Eri Hagiwara, Tae Iwasawa, Takashi Ogura

Silicosis in workers with artificial conglomerates: a current problem
Marta Plana Pes (Cardedeu, Spain), Saioa Eizaguirre Anton, Mª Teresa Campá Font, Anna Torrente Nieto, Gladis Sabater Talaverano, Eric Rojas Calvera, Lidia Perendreu Busquets, Ramon Oriol Martinez

Home environment exposure assessment in hypersensitivity pneumonitis
Jos M. Rooijackers (Beuningen, Netherlands), Vanessa Zaat, Marcel Veltkamp, Martin Meijer, Jos Houbraiken, Emeline Scherer, Gabriel Reboux, Jan Grutters

Are smoking and COPD associated with ILD onset in rheumatoid arthritis?
Boyang Zheng (Laval, Canada), Cristiano Moura, Marina Machado, Christian Pineau, Evelyne Vinet, Sasha Bernatsky

Diagnosis of fibrotic hypersensitivity pneumonitis: Can an algorithm replace multidisciplinary team discussion?
Manuela Funk-Charbonne (Bern, Switzerland), Eva Wohlfarth, Lukas Ebner, Thomas K. Geiser, Sabina A. Guler

Levels of IGFBP-1, MMP-9 and circulating nucleosomes: a new model to diagnose SSc-ILD
Julien Guitot (Liège, Belgium), Monique Henket, Béatrice André, Nathalie Hardat, Marielle Herzog, Makon-Sebastien Nyock, Michel Malaise, Renaud Louis

Clinical and functional characteristics of patients with unclassifiable interstitial lung diseases (uILD) from eurlPfrog.
Ekaterina Krauss (Giessen, Germany), Mustapha El-Guelai, Joern Pons, Ruth C. Dartsch, Silke Tello, Martina Korfei, Poornima Mahavadi, Raphael Majeed, Werner Seeger, Bruno Crestani, Andreas Guenther

Fibrosis score predicts mortality in patients with chronic hypersensitivity pneumonitis
Jieun Kang (Seoul, Republic of Korea), Jin Woo Song

The Gender-Age-Physiology (GAP) Index enhanced with KL-6 serum level for predicting disease progression in interstitial lung diseases (ILD).
Francesco Bonella (Düsseldorf, Germany), Hegedüs Balasz, Eva Gottstein, Dirk Theegarten, Ulrich Costabel, Christian Taube
Does “UIPAF” really exist?
Alessandro Libra (CATANIA (CT), Italy), Gianluca Sambataro, Silvia Puglisi, Mauro Pavone, Fabio Pino, Sebastiano E. Torrisi, Giusy Sardo, Ada Vancheri, Stefano Palmucci, Sara Tommasetti, Venerino Poletti, Carlo Vancheri

Clinical, functional and radiologic progression in Interstitial pneumonia with autoimmune features (IPAF): a prospective cohort-study
Claudio Tirelli (Vaiano Cremasco (CR), Italy), Valentina Morandi, Ilaria Campo, Giovanni Zanframundo, Carola Marioli, Nadia Grossi, Roberto Dore, Adele Valentini, Lorenzo Cavagna, Federica Meloni

Rheumatoid arthritis associated interstitial lung disease in KwaZulu-Natal, South Africa: Clinical profile and treatment outcomes
Mohammed Mitha (Durban (Kwa Zulu-Natal), South Africa), Hosam Ghammo, Catherine Connolly, Kennedy Nyamande

Prevalence and mortality of systemic sclerosis-associated interstitial lung disease (SSc-ILD) using the French national health insurance system (SNDs) database in France
Mohamad Nasser (Bron, France), Sophie Larrieu, Loic Boussel, Salim Si-Mohamed, Fabienne Bazin, Sébastien Marque, Jacques Massol, Didier Revel, Françoise Thivodet-Bejui, Lara Chalabreysse, Delphine Maucort-Boulch, Eric Hachulla, Stéphane Jouneau, Vincent Cottin

Antisynthetase syndrome related interstitial lung disease may have a better treatment response than other forms of idiopathic inflammatory myopathies: a multi-national study
Juan Ignacio Enghelmayer (Ciudad Autónoma Buenos Aires, Argentina), Florencia Vivero, Sebastian Leiva Aguero, Silvia Quadrelli, Diana Lancellotti, Federico Campins, Javier Sebastián, Pablo Malfante, Esteban Gandara, Victoria Basso, Magdalena Romiti, Adrian Gaser, Monica Sacnun, Federico Zenon, Ramiro Gomez, Patricia Aruj, Franco Pacello, Norma Naval, Viviana Moyoan, Joaquin Maritan Mar, Maria Laura Alberti, Francisco Paulin, Marcela Usandivaras, Santiago Auteri, Carolina Isnardi, Gabriella Tabaj, Brenda Varela, Fabian Caro, Soledad Altube, Mariana Lagrutta, Javier Abdala, Capone Lilian, Luciana Molinari, Beatriz Gil, Maria Otaola

A new method to estimate the long-term effect of immunosuppressants and vasodilator therapies on lung function outcomes in systemic sclerosis patients
NHAT-NAM LE-DONG (Sorinnes, Belgium), Thong Hua-Huy, Trieu-Nghi Hoang-Thi, Veronica Codullo, Yannick Allanore, Anh-Tuan Dinh-Xuan

Development Of A Machine Learning Combination With Deep Learning For Diagnosing Idiopathic Pulmonary Fibrosis In Chronic Interstitial Lung Disease
Taiki Furukawa (Nagoya (Aichi), Japan), Shintaro Oyama, Hideo Yokota, Yasuhiro Kondoh, Yoshimune Shiratori, Yoshinori Hasegawa

Correlation between physical activity and prognostic markers in patients with idiopathic pulmonary fibrosis
Merve Sinem Oguz (Istanbul, Turkey), Züleyha Kaya, Buket Akıncı, Gökşen Kuran Arslan, Gulfer Okumuş

Methylprednisolone pulse therapy in Acute Exacerbations of Idiopathic Pulmonary Fibrosis
Pier-Valerio Mari (Roma (RM), Italy), Matteo Siciliano, Francesca Cefalonì, Stefania Cortese, Enrico Schiavi, Bruno Iovene, Giacomo Sgalla, Giuseppe Maria Corbo, Francesco Varone, Luca Richeldi

Severity before or at the onset of acute exacerbation (AE) can predict the long-term and short-term survival of AE in idiopathic interstitial pneumonias (IIPs)?
Toru Arai (Osaka, Japan), Sayoko Shintani, Chikatoshi Sugimoto, Naoko Takeuchi, Tomoko Kagawa, Yasuhiro Inoue, Kazunobu Tachibana, Masanori Akira, Yoshikazu Inoue

Relationship between air pollution in Madrid and the mortality of idiopathic pulmonary fibrosis
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Ester Zamarron De Lucas, José Manuel Padilla Brito, Maria Hidalgo Sánchez, Maria Isabel Torres Sánchez, Gema Bonilla Hernán, Maria Fernández-Velázquez Peña, Prudencio Díaz-Agiero Álvarez, Elena Villamanán Bueno, Rita Regoj Zapata, Concepción Prados Sánchez, Carlos Carpio Segura, Rodolfo Alvarez-Sala Walther

Handgrip strenght and dynapenia in patients with idiopathic pulmonary fibrosis (IPF)
Mariana Bocchino (Napoli (NA), Italy), Ludovica Capitelli, Anna Agnese Stanziola, Ada Di Gregorio, Lorena Gallotti, Francesco De Blasio, Paola Alicant, Alessandro Sanduzzi Zamparelli, Luca Scalfi

Pre-congress content
Session 75
00:00 - 23:59

E-poster session: Prognosis and biomarkers of idiopathic pulmonary fibrosis

Disease(s) : Interstitial lung diseases, Airway diseases, Respiratory critical care
Method(s) : General respiratory patient care, Pulmonary function testing, Imaging, Respiratory intensive care, Cell and molecular biology, Pulmonary rehabilitation
Chairs : Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Susana Del Carmen Vanoni (Córdoba, Argentina)

Correlation between physical activity and prognostic markers in patients with idiopathic pulmonary fibrosis
Merve Sinem Oguz (Istanbul, Turkey), Züleyha Kaya, Buket Akıncı, Gökşen Kuran Arslan, Gülfer Okumuş

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Pier-Valerio Mari (Roma (RM), Italy), Matteo Siciliano, Francesca Cefalonì, Stefania Cortese, Enrico Schiavi, Bruno Iovene, Giacomo Sgalla, Giuseppe Maria Corbo, Francesco Varone, Luca Richeldi

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Body composition and prolonged hypoxia in interstitial lung disease patients
Martha Elena Quintero Martínez (Ciudad De México, Mexico), Dulce González Islas, Arturo Orea Tejeda, Valeria Ariadna Martínez Vázquez, Ilse Pérez García, Nathalie Martínez Luna, Oscar Martínez Reyna, Leslie Verdeja Vendrell, Yael Gastelum Ayala, Ameyalli Sandoval Sánchez, Manuel Gomez Martínez, Rocio Sanchez Santillan, Ivette Buendia Roldan, Robinson Robles Hernandez, Mayra Mejía Avila

Biomarkers for possible early detection and progression of idiopathic pulmonary fibrosis
Francesco Cavalli, Ermanno Puxeddu, Elisa Teodori, Maurizia Sforza, Patrizia De Marco, Paola Rogliani

Serum C16 is a potential predictor for IPF diagnosis and prognosis
Yaqiong Tian (Nanjing, China), Xianhua Gui, Hui Li, Jingjing Ding, Yin Liu, Yongsheng Wang, Jinghong Dai, Hourong Cai

Potential new biomarkers for idiopathic pulmonary fibrosis
Marina Roksandić Milenković (Beograd, Republic of Serbia), Jelena Kotur Stevuljević, Vesna Ćeriman, Vladislav Milenković, Dragana Jovanović

IL-18 binding protein as a noble biomarker for idiopathic pulmonary fibrosis
Yu Nakanishi (Hirosima, Japan), Yasushi Horimasu, Kakuhito Yamaguchi, Shintaro Sakamoto, Takeshi Masuda, Taku Nakashima, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hiroonobu Hamada, Noboru Hattori

Immunologically 'supercharged' monocytes as drivers of chronic fibrosis in idiopathic pulmonary fibrosis
Ling-Pei Ho (Oxford (Oxfordshire), United Kingdom), Emily Fraser, Laura Denney, Chaitanya Vuppisetty, Agne Antanavičiūtė, Victoria St.Noble, Rachel Benamore, Rachel Hoyles

K-L6 as a potential therapeutic biomarker in fibrosing interstitial lung diseases
Vivien Somogyi (Hiroshima, Japan), Yasushi Horimasu, Kakuhiro Yamaguchi, Yasushi Horimasu, Takeshi Masuda, Taku Nakashima, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hiroonobu Hamada, Noboru Hattori

Endotrophin is related to disease progression in idiopathic pulmonary fibrosis
Henrik Jessen (Herlev, Denmark), Nils Hoyer, Sarah Ronnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker

Serum ST2 in Idiopathic Pulmonary Fibrosis (IPF): a possible new biomarker of disease?
Ermanno Puxeddu (Roma (RM), Italy), Francesco Cavalli, Giuseppe Cillis, Elisa Teodori, Marco Perrone, Paola Rogliani

Neutrophil-to-lymphocyte ratio in IPF patients: a novel prognostic biomarker?
Miriana d’Alessandro (Siena, Italy), Laura Bergantini, Paolo Cameli, Alfonso Carleo, Piersante Sestini, Elena Bargagli

Impact of BAL lymphocytosis > 15% on the prognosis of chronic idiopathic interstitial pneumonias other than idiopathic pulmonary fibrosis: a retrospective nationwide study based on multidisciplinary discussion
Akira Yamagata (Kyoto, Japan), Machiko Arita, Fumiaki Tokioka, Chikatoshi Sagimoto, Hiromitsu Sumikawa, Tomonori Tanaka, Hideki Yasui, Tomoyuki Fujisawa, Yutaro Nakamura, Takaumi Suda, Tadashi Ishida

Cytokines, chemokines and growth factors concentration in BAL fluid from patients with Idiopathic pulmonary fibrosis (IPF) and nonspecific interstitial pneumonia (NSIP)
Marc Kaestle (Biberach an der Riß, Germany), Kerstin Geillinger-Kästle, David Lamb, Ulrich Costabel, Dirk Theegarten, Sorif Uddin, Matthew Thomas, Lutz Wollin, Francesco Bonella

Difference between pathogenic and inhibitory bacterial florae is associated with acute exacerbation of idiopathic pulmonary fibrosis
Shinichiro Ohshimo (Hirosima, Japan), Hiromi Nishi, Kakuhito Yamaguchi, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hiroonobu Hamada, Hiroyuki Kawaguchi, Francesco Bonella, Josune Guzman, Ulrich Costabel, Noboru Hattori, Nobuaki Shime

Analysis of the ratio of the main pulmonary artery to that of the aorta on chest CT in patients with combined pulmonary fibrosis and emphysema.
Takamotu Hirouchi (Tokyo, Japan), Shinichiro Ota, Masashi Nishimura, Kanako Shinada, Miwa Morikawa, Sumitaka Yamakana, Masahiro Shinoda, Osamu Sasaki, Masaharu Shinkai

Angiogenesis in idiopathic pulmonary fibrosis
Cristina Sabater Abad (Valencia, Spain), Gustavo Juan Samper, Susana Torres Martinez, Estrella Fernández-Fabrellas, Vanessa Jaimes Diaz, Esther Verdejo Mengual, Silvia Calabuig Fariñas

Pre-congress content Session 76 00:00 - 23:59

E-poster session: Pulmonary rehabilitation across the globe
Disease(s): Airway diseases Respiratory critical care Interstitial lung diseases
Method(s): General respiratory patient care Imaging Public health Epidemiology Pulmonary function testing Pulmonary rehabilitation Physiology Respiratory intensive care
Chairs: Anne Holland (Fitzroy North, Australia), Andre Nyberg (Umeå, Sweden)

829 Late Breaking Abstract - Effect of asthma gymnastic on blood nitric oxide, mood, energy expenditure and sex quality
Yusup Subagio Sutanto (Surakarta, Indonesia), Ita Juliastuti, Debree Septiawan, Dewi Nurul Makhahab, Suradi Suradi

830 Late Breaking Abstract - Usefulness of diaphragmatic ultrasound to evaluate the efficacy of EzPAP during the respiratory rehabilitation in post extubated COVID-19 patients
Anna Filomena Ferravante (Roma (RM), Italy), Francesca Plazzi, Ilaria Valentini, Susanna Mascetti, Alessia Fabiano, Stefania Pezzi, Andrea Massoni, Eva Bernardi, Luigi Arcangelo Lazzari Agli

831 Barriers to pulmonary rehabilitation in a private hospital in Brazil: a physician survey study
Fernanda Gushken (São Paulo, Brazil), Thaiz C. Colognese, Maira T. Rodrigues, Mayra Zanetti, José Luiz Bonamigo-Filho, Luciana D. N. J. De Matos, Luiza Helena Degani-Costa

832 Impact of a pulmonary rehabilitation service on functional capacity and quality of life in resource-scarce settings
Rahma Altaf (Karachi, Pakistan), Farrukh Siddique, Arman Majidulla, Saima Saeed

833 A Breath of Fresh Air
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Andrew Levy, David Barber, Dennis Wat, Sarah Sibley

834 Impact of six week hospital based Pulmonary Rehabilitation programme in patients with post Pulmonary Tuberculosis sequelae: Initial results from a hospital based longitudinal study
Aqeel Hussain (Baramulla, India), Alkesh Khurana, Rajkrishman Soman, Abhishek Goyal, Brijendra Singh

835 Chest pains among chronic lung disease patients before and after a pulmonary rehabilitation programme; implementation in four countries on three continents.
Sanne van Kampen, Rupert Jones, Wincelsaus Katagira, Bruce Kirenga, An Le Pham, Nguyen Ngoc Minh, Marilena Anastasaski, Ioanna Tsiligianni, Christos Lionis, Talant M. Sooronbaev, Niels Chavannes, Sally Singh

836 Assessing the knowledge and enthusiasm for Pulmonary Rehabilitation in Uganda: Global RECHARGE
Wincelsaus Katagira (Kampala, Uganda), Bruce Kirenga, Mark Orme, Amy Jones, Ruhme Miah, Michael Steiner, Rupert Jones, Andy Barton, Sally Singh

837 What should Pulmonary Rehabilitation (PR) look like for people with post-tuberculosis lung disease (PTBLD) in Kyrgyzstan?
Maamed Mademilov (Bishkek, Kyrgyzstan), Gulzada Mizralieva, Claire Bourne, Mark Orme, Amy Jones, Ruhme Miah, Azamat Akylbekov, Alena Oleinik, Aidai Rysbek Kyzy, Rupert Jones, Andy Barton, Dominic Malcolm, Talant Sooronbaev, Sally Singh

838 Can a COPD pharmacist reduce out-patient clinic non-attendance rates?
Maeve Savage (London, United Kingdom), Maeve Savage, Alicia Piwko, Amy Dewar, Gráinne D’Ancona

839 Implementation evaluation of the „Living well with COPD” self-management program in Switzerland
Anja Frei (Zürich, Switzerland), Alexandra Strassmann, Mathias Guler, Tania Carron, Claudia Steurer-Stey, Kaba Dalla Lana, Philippe Giroud, Isabelle Peytreman-Bridevaux, Milo Puhah

840 Non Cystic Fibrosis Bronchiectasis: Results of Bronchiectasis Severity Index and Quality of Life in an Indian population
Shubham Sharma (Jaipur (Rajasthan), India), Shyam Krishnan, Tarang Kulkarni, Raja Dhar

841 Physical function and health related quality of life following critical illness in the private health care sector in South Africa.
Alison Lupton-Smith (Cape Town (Cape), South Africa), Helanie Pool, Susan Hanekom

842 Respiratory rehabilitation in patients with stable COPD
Cristina Pou Alvarez (A Guarda, Spain), Maria Elena Toubes Navarro, Pablo Mascareñas Pazos, José Manuel García Pazos, José Manuel Álvarez Dobaño, Jorge Rícoy Gabaldón, Ana Casal Murriño, Luis Sanz Anchelegués, Luis Valdés Cuadrado

843 A cute exacerbations of chronic obstructive pulmonary disease (AE-COPD): A qualitative exploratory study of patients’ needs following discharge
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh

844 5-year follow-up of a respiratory rehabilitation program
Filipa Lemos e Aguiar (Paredes, Portugal), Paula Simão, Paula Almeida

845 Evidence for pulmonary rehabilitation in chronic respiratory diseases in sub-Saharan Africa: a systematic review
Fanuel Bickton (Blantyre, Malawi), Cashon Fombe, Enoch Chisati, Jamie Rylance
The opinions of people living with chronic respiratory disease (CRD) and healthcare professionals (HCPs) about Pulmonary Rehabilitation (PR) in Kyrgyzstan.
Azamat Akylbekov (Bishkek, Kyrgyzstan), Maamed Mademilov, Aidai Rysbek Kyzy, Mark Orme, Amy Jones, Michael Steiner, Rupert Jones, Andy Barton, Talant Sooronbaev, Sally Singh

Opinion and practice of pulmonary rehabilitation among health care providers in selected areas of Sri Lanka

ARE THERE CLINICALLY RELEVANT BENEFITS IN A STRUCTURED PROGRAM OF PHYSICAL ACTIVITY IN COPD? ACTIVEPOC STUDY.
Gianna Vargas Centanaro (Madrid, Spain), Juan Rodriguez Hermosa, Jose Alvarez- Sala, Alfonso Montero, Eva Escobar, Walther Giron, Irene Dominguez, Luis Puente Maestu, Myriam Calle

Pre-congress content Session 77

E-poster session: New imaging techniques applied to old problems

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

Method(s): Imaging, Pulmonary function testing, Physiology, Public health, Cell and molecular biology

Relation of the size of MPA (main pulmonary artery) and MPA/Ascending aorta ratio with severity of bronchiectasis in children with PCD
Adnan Zafar (Rawalpindi, Pakistan), Muhammad Qureshi, Mohammad Alzaid, Wadha Alotaibi

Performance of the First Dark-Field Chest X-ray System on Patients
Gregor S. Zimmermann (München, Germany), Konstantin Willer, Wolfgang Noichl, Theresa Urban, Manuela Frank, Fabio De Marco, Rafael Schick, Bernhard Renger, Alexander Fingerle, Hubert Hautmann, Bernhard Haller, Pascal Meyer, Thomas Koehler, Roland Proksa, Hans-Ingo Maack, Andre Varshenko, Jens Von Berg, Karsten Rindt, Daniela Pfeiffer, Ernst Rummeny, Julia Herzen, Franz Pfeiffer

Possibilities of neural networks in the X-ray detection of lung pathology and diagnosis of pneumonia
Elena Filatova (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Elena Filatova, Veschev Shibaev, Igor Medvinsky, Anna Berdnikova, Alexy Saveliev, Nikolay Khlebnikov

Feasibility of ultra-low dose CT for bronchoscopy of peripheral lung lesions.
INSU KIM (Busan, Republic of Korea), Jung Seop Eom, Hee Yun Seol

Dynamic oxygen-enhanced magnetic resonance imaging-based quantification of pulmonary hypertension
Sobitha Sathianandan (London, United Kingdom), Bhavin Rawal, Laura Price, Colm Mcabe, Marta Tibiletti, Jo Naish, Geoff J M Parker, Thomas Semple, Simon Padley, S J Worth

Detailed annotation of airway mucus plugs to inform deep learning-based methods for automated mucus scoring.
Franklin Heng (San Francisco, United States of America), Travis Henry, Brendan Huang, Eleanor Dunican, Brett Elicker, John Fahy

A preliminary set of growth adjusted reference equations for Structured light plethysmography (SLP)
Shayan Motamedi Fakhr (Ely (Cambridgeshire), United Kingdom), Nicki Barker, John Alexander, Richard Iles, Brendan G Cooper

Morphological features of bronchiectasis in patients with non-tuberculous mycobacteriosis and interstitial pneumonia
Chiiori Tabe (hirosaki, Japan), Toshihiro Shiratori, Yoshihiko Ishioka, Masamichi Itoga, Hisashi Tanaka, Kageaki Taima, Shingo Takenashi, Sadatomo Tasaka

The comparison of the several machine learning systems and the analysis of digital X-ray images with a syndrome nodule and mass in the lungs
Uliana Smolnikova (Saint Petersburg, Russian Federation), Pavel Gavrilov, Alexey Ushkov

Thoracic fat morphomics and emphysema progression in smokers
Wassim Labaki (Ann Arbor, United States of America), Michael Ferrera, Brian Demstine, June Sullivan, Tian Gu, Susan Murray, Jeffrey Curtis, Kathleen Stringer, David Lynch, Dharsan Vummidi, Ella Kazerooni, Stewart Wang, Meilan Han

The diagnosis of bronchogenic dissemination in pulmonary TB
Rasul Amansahedov (Moscow, Russian Federation), Lyudmila Dmitrieva, Oksana Komissarova, Rizvan Abdullaev, Atadzhan Ergeshov

The A-aDO2 rather than the Fick principle can be used to estimate the right-to-left shunt fraction in pulmonary arteriovenous malformation
Jun Nagata (Chiba, Japan), Toshihiko Sugira, Shun Inmai, Ayumi Sekine, Takayuki Jujo, Seichiro Sakao, Yasunori Kasahara, Nobuhiro Tanabe, Koichiro Tatsumi
Assessing bronchodilator response in patients with asthma and COPD using 19F-MRI
Benjamin Pippard (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Ian Forrest, Ian Sabroe, Rod Lawson, A John Simpson, Jim Wild, Pete Thelwall

The frequency of the errors in the interpretation of digital radiographs of the chest by radiologists when detecting nodule and mass in the lungs.
Uliana Smolnikova (Saint Petersburg, Russian Federation), Alexey Ushkov, Pavel Gavrilov

Evaluation of dissemination activity in pulmonary diseases
Rasul Amansahedov (Moscow, Russian Federation), Lyudmila Dmitrieva, Natalya Karpina, Larisa Lepekha, Raxana Kazho, Anatoliy Sigaev, Anastasiya Borisova, Atadzhan Ergeshov

Quantitative assessments for lung hyperinflation and chest wall geometry change by dynamic breathing MRI in patients with COPD
Ayako Shimada (Chiba, Japan), Naoko Kawata, Hirotaka Sato, Jun Ikari, Eiko Suzuki, Rie Anazawa, Masaki Suzuki, Yoshitada Masuda, Hideaki Haneishi, Koichiro Tatsumi

Pre-congress content
Session 78 00:00 - 23:59
E-poster session: Interventional pulmonology: the pleura and bronchoscopic treatment of emphysema

Disease(s) : Airway diseases Thoracic oncology

Method(s) : Pulmonary function testing Endoscopy and interventional pulmonology Imaging General respiratory patient care Surgery Palliative care

Chairs : Pratibha Singhal (Mumbai (Maharashtra), India), Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran)

A single centre’s real world experience with Rocket® Pleural Vent™ for treating pneumothorax
Michael Ball (Salisbury, United Kingdom), Suresh Babu, Adam Wallis, Louise Newman

Indwelling pleural catheters for refractory transudative effusions: a tertiary centre experience
Vineeth George (Oxford, United Kingdom), Robert Hallifax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendrarajah, Najib Rahman

Efficacy And Safety Of Thoracoscopic Cryobiopsy In Patients With Undiagnosed Exudative Pleural Effusion
Tamer Ali El-Hadidy (Mansoura, Egypt), Ahmed Mansour, Raed Ali, Tamer El Sayed

Oncodrivers in malignant pleural effusions associated with non-small cell lung cancer
Katrine Fjællegaard (Farum, Denmark), Jesper Petersen, Asbjorn Hoegholm, Paul Frost Clementsen, Uffe Bødker

Utility of ultrasound-guided pleural biopsy in guiding treatment for malignant pleural disease
Vineeth George (Oxford, United Kingdom), Robert Hallifax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendrarajah, Najib Rahman

IPFT (Streptokinase) in septated/loculated pleural effusion with failed tube drainage is still relevant in developing countries: A Case-control study
Rajat Kumar Agarwal (Bareilly (Uttar Pradesh), India), Rajesh Agrawal, Aseem Rajpal

Blind pleural biopsy in the study of undiagnosed pleural effusion: results and complications
Mariana Barreira Calheiros Barbosa Cabral (Porto, Portugal), Dionísio Maia, Ana Magalhães, Bruno Mendes, Carlos Figueiredo, Sofia Santos, Nicole Murinello, Rita Gerardo, Alexandra Mineiro, João Cardoso

Medical thoracoscopy in patient with the absence or a small amount of pleural effusion: Med thoracoscopy in patient with the absence or a small amount of pleural effusion
Kaige Wang (, China), Fengming Luo, Panwen Liu, Dan Liu, Peng Sun, Yanlin Zhang, Haiyan Lu

Ambulatory pneumothorax with 8Fg Rocket® Pleural Vent™: setting up a service and probable safety in secondary pneumothoraces
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson

Chest drain insertion documentation: if it wasn’t written it didn’t happen
Mphatso Wirima (Norwich, United Kingdom), Asif Mahmood, Faraz Sonde, Luaie Idris

Endobronchial valves for emphysema are effective in patients with moderate hyperinflation in the presence of a clear target lobe
Karin Klooster (Groningen, Netherlands), Jorine E. Hartman, Dirk-Jan Slebos

Impact of endobronchial valves treatment on gas exchange in emphysema
Marlies van Dijk (Groningen, Netherlands), David Koster, Karin Klooster, Jorine Hartman, Dirk-Jan Slebos
Lung volume reduction surgery after endobronchial valve treatment
Marlies van Dijk (Groningen, Netherlands), Karin Klooster, Jorine E. Hartman, T. David Koster, Caroline Van De Wauwer, Dirk-Jan Slebos

Lung functional predictors of improvement in exercise capacity and quality of life after lung volume reduction by endobronchial valves
Stephanie Everaerts (Leuven, Belgium), Astrid Blondeel, Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens

Human infection with zoonotic agent and COPD exacerbation in late course of endoscopic lung-volume reduction
Aurélien Gonze (Belgium), Richard Frognier, Afshin Rezazadeh, Adeline Rosoux

Quantitative CT analysis of fissure integrity and emphysema heterogeneity for one-way valve treatment; Analysis in Japanese COPD patients
Masamichi Mineshita, Hiroki Nishine, Hiroshi Handa, Hirotaka Kida, Naoki Furuya, Kei Morikawa

Arterial blood gases changes after endoscopic lung volume reduction
Mostafa Bakeer (Mansoura, Egypt), Marina Duller, Kelly Groß, Georg-Christian Funk, Arschang Valipour

Pre-congress content Session 79 00:00 - 23:59

E-poster session: Optimising the benefits of pulmonary rehabilitation

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Pulmonary rehabilitation, General respiratory patient care, Pulmonary function testing, Physiology, Cell and molecular biology, Public health

Chairs: Jennifer Alison (Killara (NSW), Australia), Janos Tamas Varga (Budapest, Hungary)

Late Breaking Abstract - Exercise rehabilitation in telemedicine for COVID-19 patients.
Eva Bernardi (Vazzola (TV), Italy), Francesca Plazzi, Anna Ferravante, Ilaria Valentini, Andrea Mussoni, Sussanna Mascetti, Luigi Arcangelo Lazzari Agli

Late Breaking Abstract - 'Shielding': Patient experience of measures to reduce risk of COVID-19 in those with pre-existing respiratory conditions
Andrew Cumella (London, United Kingdom), Keir Philip, Erika Kennington

Barriers to access to pulmonary rehabilitation in developing countries: a systematic review
Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova

Effects of a comprehensive pulmonary rehabilitation (PR)-program on frailty in lung transplantation candidates - a prospective observational study
Tessa Schneeberger (Schönau am Königssee, Germany), Inga Jarosch, Daniela Leitl, Rainer Glöckl, Jian Wiederhold, Sophia Leidinger, Klaus Kenn, Andreas Rembert Koczulla

Long-term effectiveness of home-based pulmonary rehabilitation in elderly people with severe COPD and chronic respiratory failure.
Sarah Gephine (Québec (QC), Canada), Olivier Le Rouzic, François Machuron, Benoit Wallaert, Cécile Chenivesse, Didier Saey, François Maltais, Patrick Mucci, Jean-Marie Grosbois

Sarcopenia in idiopathic pulmonary fibrosis (IPF): Prevalence and response to pulmonary rehabilitation (PR)
Claire M. Nolan (Richmond, United Kingdom), Matthew Maddocks, Toby M. Maher, Suhani Patel, Ruth E. Barker, Jessica Walsh, Oliver Polgar, Peter M. George, William D.C Man

Effects of home-based pulmonary rehabilitation on physical frailty in people with COPD and chronic respiratory failure.
Sarah Gephine (Québec (QC), Canada), Jean-Marie Grosbois, Didier Saey, François Maltais, Patrick Mucci

An increase in steps per day 6 weeks after pulmonary rehabilitation of COPD patients correlates with an improvement in quality of life
Konrad Schultz (Bad Reichenhall, Germany), Matthias-Peter Limbach, Michael Schuler, Johannes Carl, Klaus Pfeifer, Wolfgang Geidl

Freestyle diving training in pulmonary rehabilitation in COPD.
Janos Tamas Varga (Budapest, Hungary), Zoltan Csiszmadia, Blanka Toth, Maria Kerti

Do you know if your patient can cross the traffic light during the green period? - a prospective observational study
Inga Jarosch (Schönau am Königssee, Germany), Sophia Leidinger, Tessa Schneeberger, Jian Wiederhold, Rainer Glöckl, Daniela Leitl, Andreas Rembert Koczulla, Klaus Kenn
Incorporating patients with chronic heart failure (CHF) into pulmonary rehabilitation (PR): a propensity matched analysis
Oliver Polgar (Harrow, United Kingdom), Claire M Nolan, Ruth E Barker, Suhani Patel, Jessica A Walsh, William D-C. Man

The effect of aerobic and breathing exercises on clinical control and psychosocial status in patients with moderate and severe asthma: a RCT
Fabiana Kim (São Paulo, Brazil), Jaqueline Rocha, Denielli Da Silva Gonçalves Bos, Cibele Berto, Adriana Lunardi, Andrey Wirgues, Patricia Duarte Freitas, Rafael Stelmach, Alberto Cukier, Celso Carvalho

Survey of an online pulmonary wellness & rehabilitation program in people with chronic respiratory disease
Noah Greenspan (New York, United States of America), Marcella Debidda, Aastha Joshi, Marion Mackles, Donna Frownfeather, Donna Wilson, Mark Mangus, Greg Sweeney, Akua Adi-Labi, Wai Chan, Patricia Rocco, Mackenzie Doerstling, Brian Tzaskos, Meredith Liss, Roberta Mittman, Cynthia Revesz, Jenny Campbell, Ryan Diesem, Amy Price

Improving pulmonary rehabilitation completion with personalised exercise and education modules: the PuReMo trial
Renae McNamara (Sydney (NSW), Australia), Lingling Tsai, Mary Santos, Jennifer Alison

Feasibility of digital long term follow up after pulmonary rehabilitation in patients with COPD: a pilot study
Nils Henrik Holmedahl (Jessheim, Norway), Ingrid Sundtbor, Cesilie M Stenbakken, Siri H Solberg, Anne Edvardsen

L-glutamine supplementation improves upper airways immune response in sedentary and physically active elderly
Juliana Santos (Salvador (BA), Brazil), Vitória Paixão, Ewin Almeida, Telma Cordeiro, Jonatas Amaral, Roberta Foster, Adriane Perandio, Tamaris Roseira, Marcelo Rossi, Fernanda Monteiro, Gislène Amirato, Carlos Santos, Mauro Vaisberg, Rodolfo Vieira, André Bachi

E-poster session: Inflammatory pathways in chronic airway diseases

Late Breaking Abstract - The airway sensory nerve transcriptome: evidence for neuropathic injury following lipopolysaccharide induced lung inflammation.
Ana Isabel Caceres (Durham, United States of America), Melanie Maya Kaelberer, Sven-Eric Jordt

Uncovering regulatory function of single nucleotide polymorphisms associated with severe COPD exacerbations
Fabienne Gally (Denver, United States of America), Sarah Sasse, Joshua Carey, Anthony Gerber

Sirt3-MnSOD signaling pathway attenuates airway epithelial mitochondrial oxidative stress in chronic obstructive pulmonary disease
Ming Zhang, Yeli Zhang, Jingjing Tang, Rong Shi, Jie Zhang, Yali Li, Lei Fang, Michael Roth

Gene expression and methylation are altered by smoke cessation in the airway wall
Alen Faiz (Ultimo (NSW), Australia), Senani N.H. Rathnayake, Corneel Vermeulen, Nick Ten Hacken, Wim Timens, Wierd Kootstra, Irene H. Heijink, Corin-Anke Brandsma, Brian G. Oliver, Maarten Van Den Berge

MiRNA-mRNA-protein network integration reveals dysregulation of oxidative stress and apoptosis in smoking-induced COPD in women
Åsa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Jing Gao, C. Magnus Skold
Involvement of Parkin-mediated mitophagy in COPD-related sarcopenia pathogenesis
Akihiko Ito (Mintato-Ku, Tokyo, Japan), Mitsuo Hashimoto, Jun Tanihata, Hironori Kawamoto, Yusuke Hosaka, Akihiro Ichikawa, Tsukasa Kadota, Yu Fujita, Shunsuke Minagawa, Takanori Numata, Hiromichi Haru, Jun Araya, Kazuyoshi Kuwano

Bronchial airway expression of mucin-related, ENaC and chloride channel genes in COPD and non-COPD smokers compared to former and never smokers
Benedikt Ditz (9713 GZ , Netherlands), Senani Rathnayake Mudiyanelage, Jos Van Nijnatten, Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Huib Kerstjens, Maarten Van Den Berge, Alen Faiz

LSC - 2020 - The role of the COPD susceptibility gene FAM13A in barrier function and pro-inflammatory response of human airway epithelial cells
Qing Chen (Groningen, Netherlands)

MiR-320d has a regulatory effect in airway inflammation in COPD
Mirjam P. Roffel, Corry-Anke Brandsma, Alen Faiz, Maarten Van Den Berge, Tania Maes, Ken R. Bracke, Irene H. Heijink

Changes in the induced sputum proteome during COPD exacerbations
Ingvild Haaland (Bergen, Norway), Marit E. Aardal, Frode S. Berven, Marc Vaudel, Rune Nielsen, Marianne Aanerud, Jon A. Hardie, Per S. Bakke, Tomas M. Eagan

Metabolomics identifies biomarkers of exacerbations in smokers with and without COPD
Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara Garcia Barrera, Jose Maria Marin Trigo, Ciro Casanova Macario, Borja Garcia-Cosio, Isabel Mir Viladrich, Ingrid Solanes Garcia, Jose Luis Gomez Ariza, Jose Luis Lopez Campos, Luis Seijo Maceiras, Nuria Feu Collado, Carlos Cabrera Lopez, Carlos Amado Diago, Amparo Romero Plaza, Juan Pablo De Torres Tajes, Luis Alejandro Padron Frayse, Belen Callejon Lefbic, Eduardo Marezqu Martin, Margarita Marin Rojo, Eva Balcells Vilarnau, Antonia Llunell Casanovas, Cristina Martinez Gonzalez, Juan Bautista Galdiz Iturri, Celia Lacarcel Bautista, Sandra Garcia Garrido, German Peces-Barba

Chromatin dynamics via HMGN5 regulates COPD susceptibility
Thomas Conlon (Neuherberg, Germany), Julian Dorer, Rim Sarker, Gerald Burgstaller, Lisa Merthan, Valerie Gailus-Durner, Helmut Fuchs, Martin Hrabè De Angelis, Takashi Furusawa, Michael Bustin, Ali Önder Yildirim

Regulation of airways smooth muscle contraction through RG-1 in asthma: a proteomic approach
Marisol Alvarez-Gonzalez, (Mexico), Mayra Alvarez-Santos, Blanca Margarita Bazan-Perkins

An investigation of miR-21 and the TLR4/PDCD4 axis in CF bronchial epithelium
Arlene Glasgow (Dublin, Ireland), Sebastian Venechen, Chiara De Santi, Rana Raoof, David Henshall, Barry Linnane, Paul McNally, Catherine Greene

Comparative transcriptional analysis of differentiation in murine mucociliary epithelia
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Apoorva Mulay, Lynne Bingle, Colin Bingle

CARD9S12N allele expression imbalance favors development of allergic bronchopulmonary aspergillosis
Xia Xu, (China), Xinning Jia, Jinfu Xu

Mapping of KRAS mutations during chemical carcinogenesis
Sabine Behrend (München, Germany), Magda Spella, Marco. A. A. Pepe, Marina Lianou, Ioanna Giopanou, Georgios T. Stathopoulou

Pre-congress content
Session 81
00:00 - 23:59

E-poster session: Exploring exercise responses in respiratory diseases

Disease(s) : Airway diseases Pulmonary vascular diseases Interstitial lung diseases Sleep and breathing disorders
Method(s) : Pulmonary function testing Physiology Pulmonary rehabilitation Imaging General respiratory patient care
Chairs : Mayron Oliveira (São Paulo (SP), Brazil), Christina M. Spengler (Zürich, Switzerland)

Cardio-pulmonary-exercise testing, stress-induced right ventricular diastolic dysfunction and exercise capacity in non-severe chronic obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitar Kostadinov, Zheyna Cherneva

Energy cost of walking : Idiopathic Pulmonary Fibrosis vs COPD
Khadija Ayed (Nabeul, Tunisia), Salma Moakaddem, Soumaya Khaldi, Asma Chaker, Saloua Benkhamsa Jameleddine

Alterations in cardiovascular function in COPD and heart failure patients with sarcopenia
Manuel Abraham Gomez Martinez (Mexico City, Mexico), Oscar Martinez Reyna, Arturo Orea Tejeda, Dulce Gonzalez Islas, Rocío Sanchez Santillan, Nathalie Martinez Luna, Yael Ramiro Gastelum Ayala, Ilse Perez Garcia, Valeria Ariadna Martinez Vazquez, Itzel Ameyalí Sandoval Sanchez, Martha Elena Quintero Martinez, Leslie Verdeja Vendrell, Teresa Suarez Landa, Juan Jose Orozco Gutierrez, Javier Mancilla Galindo
Mechanisms of exertional dyspnea in patients with mild COPD and low resting lung diffusing capacity for carbon monoxide (DLCO)
Matthew James (Kingston (ON), Canada), Kathryn Milne, J Alberto Neder, Denis O'Donnell

An exploratory comparison between the ratio of 1:2 legged cycling peak workload and other physical performance measures
Tom Ward (Market Harborough (Leicestershire), United Kingdom), Tom Ward, Michael Steiner, Charlotte Bolton, Martin Lindley, Rachael Evans

Optimizing baseline constant work rate exercise test duration for COPD bronchodilator studies
Richard Casaburi (Rancho Palos Verdes, United States of America), Gale Harding, Danielle Rodriguez, Debra Merrill, Nichloas Locantore, Ren Yu, Harry Rossiter, Alan Hamilton

New approach for submaximal cardiopulmonary exercise testing in COPD aiming to reduce variability in endurance time
Georgia Papapostolou (Lund, Sweden), Finn Radnik, Jaros Ankerst, Leif Bjørner, Linnea Jarenbäck, Stefan Petersson, Ellen Tufvesson, Göran Eriksson

Hemodynamic effects of high intensity interval training in COPD with hypoxemia.
Lars Aakerøy (Trondheim, Norway), Ester Nørstebø, Karen Thomas, Knut Hegbom, Espen Holte, Eivind Brunstad, Sigurd Steinshamn

Analysis of changes in clinical characteristics of patients with COPD or interstitial pneumonia during a 6-minute walk test
Atsushi Ogi (Osaka, Japan), Taisuke Enoki, Tetsuya Matsumoto, Kenichi Ito, Gaku Shimizu, Miyuki Okuda, Nobuya Tanaka, Koji Fukuda, Ryuji Nohara

The link between dynamic hyperinflation, autonomic dysfunction and exercise testing parameters with masked heart failure in patients with non-severe obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

COPD attenuates NK and TReg cell mobilization following high-intensity interval exercise
Asghar Abbasi (Torrance, United States of America), Valentina Sanghez, Michela Iacovino, Robert Calmelat, Nicholas B. Tiller, Janos Porszasz, William W. Stringer, Richard Casaburi, Harry B. Rossiter

Relationships among muscle oxidative capacity, coronary artery calcium, and hepatic steatosis in COPD: A pilot study
Nicholas Tiller (Torrance, United States of America), Harry Rossiter, Asghar Abbasi, April Kinninger, Matthew Budoff, Richard Casaburi, Alessandra Adami

For once, it’s not the heart! Exercise limitation in children from breathing pattern disorders post cardiac-surgery.
Thomas Goddard (Adelaide (SA), Australia), Zdenek Slavik, Samatha Sonnappa

Paroxysmal nocturnal hemoglobinuria and cardio-respiratory system: new pathophysiological evidences
Marco Brunori (Roma (RM), Italy), Pasquale Pignatelli, Francesco Violi, Lorenzo Loffredo, Daniele Pastori, Anna Paola Iori, Luisa Quattrerocchi, Matteo Salvini, Alessandra Napoli, Daniel Piamonti, Paolo Palange

Cardiopulmonary response to stair climbing in patients with dysfunctional breathing
Karina Siewers (Copenhagen, Denmark), Emil Schwarz Walsted, Bishman Manivannan, Christopher Warren, Colm Mceabe, James H Hull

Objective criteria to characterize an erratic breathing pattern in dyspnoeic patients undergoing cardiopulmonary exercise testing
Nathalia Mendes (Porto Alegre, Brazil), Talmir Nolasco, Franciele Plachi, Ricardo Gass, Marcelo Nogueira, Marcelo B. Gazzana, J Alberto Neder, Danilo C Berton

Relationship between body mass index and exercise hyperpnea response (VE/VCO2) in unfit patients with unexplained dyspnea
Behdad Boroofeh (Tehran, Islamic Republic of Iran), Mehrnaz Asadi Gharabaghi, Masoumeh Azadi, Shahideh Amini

Predictors of exercise-induced airways obstruction in patients with mild asthma.
Maroon Salameh (, Italy), Laura Pini, Federico Quadri, Fabio Spreatifico, Damiano Bottone, Jordan Franz Giordani, Claudio Tantucci

Six minute test in children and adults with cystic fibrosis
Tatjana Jakovska-Maretti (Skopje, North Macedonia), Angelco Andonovski, Filip Doksimovski
Pre-congress content

E-poster session: New insights into determinants of patient-reported outcomes in chronic respiratory diseases

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

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

**Chairs:** Sally J. Singh (Leicester (Leicestershire), United Kingdom), Rainer Gloeckl (Schoenau am Koenigsee, Germany)

**938**
Late Breaking Abstract - The weekly recovery of physical capacities in COVID-19 patients during post-extubation pulmonary rehabilitation
Yara Al Chikhanie (Dieulefit, France), Samuel Vergès, Frédéric Hérent, Daniel Veale

**939**
Association between patient-reported outcomes and exercise test outcomes in patients with COPD.
Roy Meys (Horn, Netherlands), Anouk Stoffels, Sarah Houben-Wilke, Daisy Janssen, Chris Burtin, Hieronymus Van Hees, Frits Franssen, Bram Van Den Borst, Emiel Wouters, Martijn Spruit

**940**
A newly developed ultra-small portable oxygen concentrator with equivalent efficacy to the conventional device
Shohei Kawachi (Matsumoto, Japan), Keisaku Fujimoto, Mahoko Sano

**941**
Prevalence of non-pharmacological treatable traits in patients with asthma
Steffi Lemmens-Janssen (Leiden, Netherlands), Martijn Spruit, Jeanine Antons, Remco Djamin, Tjitske Tjalma, Hans In 'T Veen, Sami Simons, Hanneke Van Helvoort, Alex Van 'T Hul

**942**
Barriers to Exercise in Difficult Asthma in the WATCH Cohort
Anna Freeman (Southampton, United Kingdom), Adnan Azim, Colin Newell, David Hill, Deborah Knight, Laura Presland, Matthew Harvey, Helen Moyes, Karl J Staples, Ramesh Kurukularathee, Tom M A Wilkinson

**943**
Effects of a NEMS program in muscle-wasted AECOPD patients
Laura Lopez Lopez (Granada, Spain), Andrés Calvache Mateo, Irene Torres Sánchez, Maria Granados Santiago, Jesús Gonzalez Dueñas, Marie Carmen Valenza

**944**
The correlation between quadriceps muscle strength and endurance and exercise performance in patients with COPD
Anouk Vaes (Horn, Netherlands), Maurice Sillen, Yvonne Göertz, Maarten Van Herck, Frits Franssen, Chris Burtin, Alex Van 'T Hul, Martijn Spruit

**945**
The effects of mechanical insufflation-exsufflation on lung function and complications in post-cardiac surgery patients
PI HUNG TUNG (Taoyuan, Taiwan), Men-Fang Wu, Tsai-Yu Wang, Da-Shen Chen, Han-Chuang Hu, Shu-Min Lin

**946**
Determinants of E SWT’ time variability in patients with COPD
Anouk Stoffels (Nijmegen (GE), Netherlands), Jeannette Peters, Mariska Klaassen, Hanneke Van Helvoort, Roy Meys, Peter Klijn, Chris Burtin, Wim Derave, Frits Franssen, Martijn Spruit, Bram Van Den Borst, Hieronymus Van Hees

**947**
Effect of portable non-invasive ventilation on exercise tolerance in COPD: one size does not fit all
Nikolaos Chynkiamis (Newcastle Upon Tyne, United Kingdom), Matthew Armstrong, Emily Hume, Charikleia Alexiou, Lauren Snow, Nicholas D. Lane, Tom Hartley, Stephen C. Bourke, Ioannis Vogiatzis

**948**
Resting Energy Expenditure in COPD: development of a new predictive equation
Panaiotis Finamore (Roma (RM), Italy), Greta Lattanzi, Claudio Pedone, Simone Scarlata, Antonio Alma, Raffaele Antonelli Incalzi

**949**
Clinical evaluation of portable oxygen concentrators: impact of pulse oxygen delivery on exercise
Maxime Patou (Mont-Saint Aignan, France), Julian Maris, Boris Melloni, Claudio Rabec, Jacqueline Delrieu, Tristan Bonnevie, Francis-Edouard Gravier, Frederic Herengt, Yara Al Chikhanie, Didier Foret, Arnaud Chambellan, Jesus Gonzalez-Bermejo, Antoine Cuvelier, Jean-Francois Muir

**950**
Factors that affect the severity of fatigue in patients with COPD
Ridvan Aktan (balcova (izmir), Turkey), Aylin Ozgen Alpaydin, Elvan Keles, Sevgi Ozalevli

**951**
Health status in COPD according to short physical performance battery summary score
Anouk Stoffels (Nijmegen (GE), Netherlands), Jana De Brandt, Roy Meys, Hieronymus Van Hees, Anouk Vaes, Peter Klijn, Chris Burtin, Frits Franssen, Bram Van Den Borst, Maurice Sillen, Emiel Wouters, Daisy Janssen, Martijn Spruit

**952**
Feasibility and benefits of an innovative airway clearance device in COPD patients hospitalized for acute exacerbation
Ivan Solovic (Vysne Hagy, Slovakia), Alena Bodnarova, Laurent Morin
The impact of walking behind the patient on six-minute walk test distance in chronic obstructive pulmonary disease: a randomized cross-over study
Thomas Riegler (Heiligenschwendi, Switzerland), Anja Frei, Sarah R. Haile, Thomas Radtke

Comparison of high-flow oxygenation to noninvasive ventilation in COPD exacerbation
Atefeh Fakharian (Tehran, Islamic Republic of Iran), Abbas Rezaee, Hamidreza Jamaati, Esmail Eidi, Atefeh Abedini, Fariba Ghorbani

Need of help for activities of daily living in patients with mild to severe COPD: Who helps, with what and how much?
Ulla Möller Weinreich (Ålborg, Denmark), Rina Juell Kaptajn, Tina Helle

Measuring the experience of living with COPD and receiving medical care in people with COPD
Marcie A Jones (Leicestershire, United Kingdom), Rachael A Evans, Neil J Greening, Michael C Roberts, Nicole Toms, Matthew Hodson, Michael C Steiner

Pre-congress content
Session 83 00:00 - 23:59
E-poster session: Prediction of outcomes in obstructive diseases

Disease(s): Airway diseases, Respiratory critical care
Method(s): Public health, General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Physiology, Epidemiology
Chairs: Renaud Louis (Liège, Belgium), Gert-Jan Braunstahl (Rotterdam, Netherlands)

Late Breaking Abstract - Comparative analysis of effectiveness of Asthma Control Test-guided treatment versus usual care in patients with asthma from China
Ling Ye (Shanghai, China), Ling Ye, Xiwen Gao, Chunlin Tu, Chunling Du, Wenchao Gu, Jingqing Hang, Lei Zhao, Zhijun Jie, Hailing Li, Yueming Lu, Jin Wang, Xiaoyan Jin, Meiling Jin

Late Breaking Abstract - Overestimation of asthma control and misperception of short-acting ß2-agonists (SABA) use among physicians in Poland
Radosław Gawlik (Poznań, Poland), Grażyna Bochenek, Dorota Brzostek, Wojciech Barg, Grzegorz Brożek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Rafał Dobek, Aleksandra Kucharczyk, Maciej Kupczyk, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Marek L Kowalski

Should maximal mid-expiratory flow (MMEF) be considered more in COPD?
Ridvan Aktan (Balcova (İzmir), Turkey), Sevgi Ozalevli, Aylin Ozgen Alpaydin

High interleukin-33 is associated with acute exacerbation in patients with chronic obstructive pulmonary disease
Chin Kook Rhee (Seoul, Republic of Korea), Kyung Hoon Min, Kwang Ha Yoo, Yi-Suck Jung

Long-Term Remission and Changes in the Severity of Asthma over 30 Years- Trial Cohort
Oliver Djurhuus Tupper (Søborg, Denmark), Charlotte Suppli Ulrik

Sputum Vitamin D binding protein (VDBP) GC 15/15 genotype predicts airway obstruction: a prospective study in smokers with COPD
Jing Gao (Stockholm, Sweden), Tanja Törölä, Chuan-Xing Li, Steffen Ohlmeier, Tuula Toljamo, Pentti Nieminen, Noboru Hattori, Ville Pulkkinen, Hiroshi Iwamoto, Witold Mazur

Association between lung dysfunction and extra-pulmonary factors in young people
Keiko Doi (Ube, Japan), Tsunahiko Hirano, Keita Murakawa, Ayumi Chikumoto, Yuichi Ohteru, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga

Angiogenic status in patients with chronic obstructive pulmonary disease
Sherlyne Vanessa Jaimes Diaz (Valencia, Spain), Gustavo Juan Samper, Cristina Sabater Abad, Estrella Fernandez Fabrellas, Esther Verdejo Menguol, Susana Torres, Silvia Calabuig, Ignacio Martinez

Z-alpha1-antitrypsin polymers and small airways disease: a new paradigm in COPD development?
Laura Pini (Brescia (BS), Italy), Luciano Corda, Guido Levi, Laura Tiberio, Chiara Rocchetti, Marianna Arici, Jordan Franz Giordani, Claudio Tantucci
**Mortality prediction in chronic obstructive pulmonary disease comparing the GOLD 2015 and GOLD 2019 staging systems: a pooled analysis of individual patient data**
Elena García Castillo (Madrid, Spain), Tamara Alonso Pérez, Julio Ancochea Bermúdez, Maria Teresa Pastor Sanz, Juan Pablo De Torres, Bernd Lampebrecht, Pere Almagro, Pablo Martínez Cambor, Marc Miravitlles, Mónica Rodríguez Carbellreba, Immaculada Alfageme, Ana Sofia Ramirez Garcia-Luna, Berhard Kaiser, Ciro Casanova, Cristobal Esteban, Juan José Soler Cataluña, Bartolomé Celi, Jose Maria Marin, Patricia Sobradillo, Peter Lange, Judith Garcia Aymerich, Josep Anto, Alice Turner, Han Meilan, Arnulf Laghammer, Sigrid Vikjord, Alice Stenberg, Linda Leivseth, Ane Johannessen, Oga Toru, Borja Cosio, Andréu Echažarreta, Nicolás Roche, Pierre Regis Bürgel, Don Sin, Milo Puhan, Jose Luis López Campos, Annie Navarro, Laura Carrasco, Per Bakke, Joan B Soriano

**Hyaluronic acid in COPD exacerbations of different etiology**
Eleni Papakonstantinou (Thessaloniki, Greece), Leticia Grize, Hans Hirsch, Michael Tamm, Daiana Stolz

**Neutrophil-to-lymphocyte ratio and COPD exacerbations in the TIE-study**
Jens Ellingsen (Uppsala, Sweden), Christner Janson, Kristina Bröms, Hans Hedenström, Marieann Höglund, Karin Lisspers, Björn Ställberg, Andrei Malinovschi

**Exacerbation burden in mild asthma: Evidence from the NOVELTY study**
Sarwar Muhammad Golam (Göteborg, Sweden), Mohnes Sadatsafavi, Marianna Alacqua, Richard Beasley, J Mark Fitzgerald, Tim Harrison, Rod Hughes, Hana Müllerová, Jose Maria Olaguibel, Eleni Rapsomaniki, Helen K Reddel, Christner Janson

**Increased plasma fibrinogen could predict frequent exacerbations in asthma**
Vitina Carriero (Orbassano, Italy), Francesca Bertolini, Andrea Sprio, Fabio Luigi Massimo Ricciardolo

**Iron deficiency and lung function decline in stable COPD - a prospective cohort study**
Benjamin Waschki (Hamburg, Germany), Tanja Zeller, Niels Thomsen, Christina Magnussen, Stefan Blankenberg, Klaus Rabe, Mahir Karakas, Henrik Watz

**Risk factors for early readmission after acute exacerbation of chronic obstructive pulmonary disease**
Yong Suk Jo (Seoul, Republic of Korea), Chin Kook Rhee, Kwang Ha Yoo, Yong-Bum Park

**Phenotypic factors as predictors of thrombotic conditions in patients with chronic obstructive disease**
Elnorahtoun Abduganieva (Moscow, Russian Federation), Liverko Irina

**Efficiency of different multidimensional indexes for the assessment of the risk of exacerbations in patients with COPD**
Alexandru Corlateanu (Chisinau, Republic of Moldova), Eugenia Scutaru, Doina Rusu, Olga Corlateanu, Serghei Covantev, Victor Botnaru

**A novel alert system for impending acute exacerbation of COPD based on cough monitoring.**
Michael Crooks (York (North Yorkshire), United Kingdom), Albertus Den Brinker, Ralph Van Dinther, Susannah Thackray-Nocera, Caroline Wright, Alyn Morice

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Pre-congress content  
Session 84  
00:00 - 23:59

E-poster session: Clinical studies of COPD: combination inhalers and much more

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Public health, Epidemiology

**Chairs:** Nicolas Roche (Paris, France), Alexander Mathioudakis (Manchester, United Kingdom)

**The TRIFLOW study; A randomised, cross-over study evaluating the effects of inhaled beclometasone/formoterol/glycopyrronium (BDP/F/G) on hyperinflation in COPD**
Dave Singh (Manchester, United Kingdom), Catalina Panainte, Naimat Khan, James Dean

**COPD exacerbation rates by month in the ETHOS trial with budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels**
Fernando J. Martinez (New York, United States of America), Klaus F. Rabe, Gary T. Ferguson, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reinsen, Paul Dorinsky

**TriOptimize VII: Improvement of health-related quality of life after 3 months treatment with extrafine single inhaler triple therapy in COPD patients in a real-world setting.**
Christian Gessner (Leipzig, Germany), Sanaz Bahari Javan, Raimund Hövelmann, George Georges, Kai Melchior, Carl-Peter Criee
Effect of triple therapy with extra-fine BDP/FF/GB pMDI vs non-triple maintenance therapies on severe COPD exacerbations. A pooled analysis of the TRILOGY, TRINITY and TRIBUTE studies.

Dave Singh (Manchester, United Kingdom), Enrico Clini, Alberto Papi, Alessio Piraino, Elena Nudo, Alessandro Guasconi, George Georges, Jorgen Vestbo

Initial treatment with tiotropium/olodaterol improves physical inactivity in patients with treatment-naïve COPD

Koichiro Takahashi (Saga, Japan), Masaru Uchida, Go Kato, Ayako Takamori, Hironori Sadamatsu, Masahide Tanaka, Ryo Tajiri, Hiroshi Inoue, Takashi Kinoshita, Keisuke Kojima, Makoto Yoshida, Hiromi Kobayashi, Hiroki Tashiro, Shinichiro Hayashi, Atsushi Kawaguchi, Naoko Sueoka-Aragane, Tomotaka Kawayama

INTREPID study: Once-daily single-inhaler fluticasone furoate/umeclidinium/vilanterol vs multiple-inhaler triple therapy; sub-analysis by prior medication strata

Chris Compton (Brentford, Middlesex, United Kingdom), Sally Worsley, Dawn Midwinter, Afisi Ismaila, Kai-Michael Beeh, Valentina Di Boscio, Janwillem Kocks, Jose M. Marin, Maggie Tabberer, Neil G. Snowise, David M.G. Halpin

Characterising patients with COPD by baseline short-acting ß2-agonist (SABA) use: a post hoc analysis of the EMAX trial

Edward M. Kerwin (Medford, United States of America), Isabelle H. Boucot, Leif Bjmermer, François Maltais, Paul W. Jones, Lee Tombs, David A. Lipson, Chris Compton, Claus F. Vogelmeier

Efficacy and safety of adding erdosteine in acute exacerbations of COPD (AE COPD): a comparative analysis with the standard treatment

Maurizio Moretti (Modena (MO), Italy), Edoardo Pozzi

Exacerbation benefit by blood eosinophil counts with budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels in the ETHOS trial: a subgroup analysis

Klaus F. Rabe (Kiel, Germany), Fernando J. Martinez, Gary T. Ferguson, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie McLaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

Involvement of airway eosinophilia and airway hyperresponsiveness in management and therapy for COPD

Hiroaki Kume (Sennan, Japan), Masayuki Hojo, Naozumi Hashimoto

TREATMENT-RELATED DETERMINANTS OF THE RESPIRATORY MICROBIOME IN COPD

Eduard Monsó (La Garriga, Spain), Kristopher Opron, Oriol Sibila, Rosa Faner, Toni Gabaldon, Lidia Pereu, Sara Quero, Alicia Marin, Marisol Dominguez Alvarez, Marian Garcia Nuñez, Yvonne J Huang

Response to inhaled corticosteroids in patients with non-asthmatic eosinophilic bronchitis

Katarzyna Białek-Gosk (Warszawa, Poland), Marta Dąbrowska, Elżbieta M Grabczak, Olga Truba, Aleksandra Rybka-Frączek, Karolina Klumowicz, Rafal Krenke

Ensifentrine added on to tiotropium significantly improves lung function, symptoms and QoL in symptomatic COPD patients regardless of baseline reversibility

Kathleen Rickard (Durham, United States of America), Thomas Bengtsson, Tara Rheault

Triple therapy de-escalation to dual bronchodilation in COPD patients: Baseline data from the DACCORD cohort

Heinrich Worth (Cadolzburg, Germany), Roland Buhl, Peter Kardos, Victoria Obermoser, Eva Gückel, Claus F. Vogelmeier, Carl-Peter Criee

Pre-congress content Session 85 00:00 - 23:59

E-poster session: Clinical data and COPD management

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

Method(s): Public health Physiology General respiratory patient care Cell and molecular biology Pulmonary function testing Palliative care Epidemiology

Chairs: Sara Cuevas Ocaña (Nottingham, United Kingdom), Chair to be confirmed

Predictive factors of vitamin D status in southern mediterranean patients with COPD

Malek Chaabouni (Sfax, Tunisia), Walid Fekri, Khansa Chaabouni, Khouloudf Abdelmoule, Youssef Elloumi, Nadia Moussa, Sameh Msaad, Fatna Makni Ayadi, Samy Kammoun

Monitoring COPD patients according to the GOLD 2017 document: systemic and bronchial inflammation

Patrizia Pignatti (Pavia, Italy), Dina Visca, Francesca Chirubino, Martina Zappa, Laura Saderi, Elisabetta Zampogna, Giovanni Sottigli, Antonio Spanevello

Exploring respiratory rate as a novel health marker in COPD

Grace France (Leicester, United Kingdom), Neil J Greening, Dale Eslinger, Michael C Steiner, Sally J Singh, Mark W Orme

Prediction of exacerbation in one-year follow-up of patients with chronic obstructive pulmonary disease

Kristina Tot Vereš (Zrenjanin, Republic of Serbia), Miroslav Ilić, Biljana Zvezdin, Nevena Savić, Ana Milenković Jakić

Pre-congress content Session 85 00:00 - 23:59

E-poster session: Clinical data and COPD management

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

Method(s): Public health Physiology General respiratory patient care Cell and molecular biology Pulmonary function testing Palliative care Epidemiology

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Grace France (Leicester, United Kingdom), Neil J Greening, Dale Eslinger, Michael C Steiner, Sally J Singh, Mark W Orme

Prediction of exacerbation in one-year follow-up of patients with chronic obstructive pulmonary disease

Kristina Tot Vereš (Zrenjanin, Republic of Serbia), Miroslav Ilić, Biljana Zvezdin, Nevena Savić, Ana Milenković Jakić
Features of differences in clinical anamnestic, functional indicators, and alpha-1-antitripsin, in teenagers with chronic bronchitis, in the gender-age aspect
Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Vasily Feodorovich Pyatin, Egor Dmitrievich Mokin

Different clinical suspect that brings to the diagnosis of alpha1-antitrypsin deficiency
Stefania Ottaviani (Pavia (PV), Italy), Bruno Balbi, Valentina Barzon, Alice Maria Balderacchi, Alessandra Corino, Davide Piloni, Francesca Mariani, Angelo Guido Corsico, Ilaria Ferrarotti

Comparison between tools for measuring breathlessness: cross-sectional observation and predictive properties
Masaaki Kusunose (Obu, Aichi, Japan), Ryo Senda, Ayumi Narita, Koichi Nishimura

Opioid prescription for severe chronic breathlessness to hospitalised patients with COPD - a clinical audit
Xinye Chen (Melbourne, Australia), Natasha Smallwood

Using pharmacy sales data to estimate treated COPD prevalence in Portugal
António T. Rodrigues, Mariana Romão, Rúben Pereira, Heudtlass Peter, Agostinho Marques, Luis Rocha, João Cardoso, José Alves

Differences in health related quality of life among caregivers of COPD patients according to the level of perceived burden
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arelý Martínez, Viridiana Peláez Hernández, Dulce Gonzales Islas, Arturo Orea Tejeda, Karen Santillán Reyes, Karla Rosales Castillo, Guadalupe Lizzbett Luna Rodriguez, Valeria Martínez Vázquez

Sex differences in chronic respiratory failure patients users of long-term oxygen therapy
Nouha Guediri (Tunis, Tunisia), Jihene Ben Amar, Haïfa Zaibi, Besma Dhafrhi, Hichem Aouina

Association of Metabolic Syndrome with the severity of Chronic Obstructive Pulmonary Disease
Javiera Shaikh (Karachi, Pakistan), Nisar Ahmed Rao

PROMS and FEV1 as predictors of AECOPD
George Drivas (Athens, Greece), Georgios Illias, Anastasia Papaportyriou, Maria Kaponi, Katerina Dimakou

Does smoking affect nutritional status and renal function in patients with COPD?
Olha Boiko (Dnipro, Ukraine), Viktoriya Rodionova

Stratifying COPD patients by cluster analysis using clinical and behavioral variables
Cathelijne van Zelst (Rotterdam, Netherlands), Lucas Goossens, Maureen Rutten- Van Molken, Johannes In'T Veen

Atherosclerosis of the brachiocephalic arteries in healthy smokers and patients with COPD
Vera Nervorova (Vladivostok (Primorsky Krai), Russian Federation), Elena Kondrashova, Dmitriy Bogdanov, Tatyana Kharzamanova

Is anemia associated with readmission risk in severe acute exacerbation of COPD: Preliminary results from a naturalistic cohort
Salih Selin Ozuygur (izmir, Turkey), Aylin Ozgen Alpaydın, Selin Erten, Ceyda Sahin, Kemal Can Tertemiz

Comparison of prognostic significance of the quality of life questionnaires in patients with COPD combined with hypertension
Anastasiia Melenevych (Kharkiv, Ukraine)

Lung function differences between men and women with COPD
Raquel Barros (Lisboa, Portugal), Carolina Santos, Tiago Pereira, Ana Sofia Oliveira, Cristina Bárbara

Prevalence, determinants and impact of nocturnal hypoxemia in COPD patients not candidates for domiciliary oxygen therapy
trina sarkar (mumbai, India), Lancelot Pinto, Ashok Mahashur

Pre-congress content
Session 86 00:00 - 23:59

E-poster session: Prognosis and integrated management of COPD

Disease(s): Sleep and breathing disorders, Airway diseases, Respiratory critical care, Pulmonary vascular diseases

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

Chairs: Wassim Labaki (Ann Arbor, United States of America), Marija Vukoja (Sremka Kamenica, Republic of Serbia)
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<td>Hiroshi Shibata (Kamogawa City, Japan), Akihiro Shirosita, Yu Tanaka, Akihiro Nishi, Chigusa Shirakawa, Kei Nakashima, Yuki Kataoka</td>
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<td>Cássia Goulart (Sao Carlos, Brazil), Camila Brinqués, Sabrina Souza, Kamila Mansour, Guilherme Back, Douglas Martins, Audrey Borghi-Silva, Renata Trimer, Andrêa Da Silva</td>
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<td>Ascending pain pathway function in COPD patients versus healthy controls.</td>
<td>Maria Granados Santiago (Alcaudete, Spain), Janet Rodriguez Torres, Esther Prados Román, Laura López López, Maria Montes Ruiz-Cabello, Marie Carmen Valenza</td>
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<td>Prevalence and clinical predictors of inhaler discordance in COPD: an observational study</td>
<td>Hadeer S. Harb (Bani-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim</td>
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<td>Very limited impact of chest CT-scan on the management of chronic cough.</td>
<td>Laurent Guilleminault (Toulouse Cedex, France), Mathilde Descazeaux, Danièle Brouquières, Alain Didier, Marianne Lescouzères, Roger Escamilla</td>
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<td>Francesca Frassanito (, Italy), Dejan Radovanovic, Luca Perotto, Silvia Vanni, Davide Raiteri, Maurizio Rizzi, Pierachille Santos</td>
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<td>PSYCHOLOGICAL FACTORS PREDICTIVE OF QUALITY OF LIFE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE</td>
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**Relationship between health-related quality of life and cognitive function in patients with cardiorespiratory failure**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martínez, Viridiana Peláez Hernández, Karen Santillán Reyes, Arturo Orea Tejeda, Karla Rosales Castillo, Guadalupe Lizzbett Luna Rodríguez, Rocio Sánchez Santillán, Valeria Martínez Vázquez, Oscar Martínez Reyna

**Evaluation of pain pressure threshold in patients with moderate to severe symptomatic COPD and healthy controls**
Maria Granados Santiago (Alcaudete, Spain), Janet Rodriguez Torres, Esther Prados Román, Laura López López, Maria Montes Ruiz-Cabello, Marie Carmen Valenza

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**Pre-congress content**
**Session 87**

**E-poster session: Evaluation of knowledge transfer into clinical practice**

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

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

**Evaluating the use of the Australian and New Zealand COPD guidelines (The COPD-X Plan) in clinical practice: a user survey**
Ian A. Yang (Brisbane (QLD), Australia), Juliet Brown, Eli Dabscheck, Johnson George, Kelcie Herrmann, Susan C. Jenkins, Christine F. Mcdonald, Vanessa M. Mcdonald, Brian J. Smith, Nicholas Zwar, Ian A. Yang

**Innovative realistic training phantom for all aspects of diagnostic and therapeutic bronchoscopy**
Leander Heisterberg (Tübingen, Germany), Benedikt Mothes, Karl-Ernst Grund

**Patients’ experience with and knowledge on clinical trials.**
Aneta Kacprzak (Warszawa, Poland), Dorota Kowalczyk, Joanna Biernacka

**Confidence of thrombolysis and follow up of acute pulmonary embolus in the UK. A survey of UK respiratory trainees.**
Michael Bridgett (Hassocks, United Kingdom), Brendan Madden

**Obstructive sleep apnea knowledge and attitude among pulmonology training fellows in the Philippines**
Krisly Panugayan (Manila, Philippines), Rodolfo Dizon, Jr.

**Knowledge and attitude about Obstructive Sleep Apnea among Resident doctors in South-East Nigeria**
Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Chihurumnanya Alo

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**Pre-congress content**
**Session 88**

**E-poster session: Monitoring of patients with COPD**

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

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

**Relationship between emphysema extent and pulmonary function test in chronic obstructive pulmonary disease**
Mariana Barreira Calheiros Barbosa Cabral (Porto, Portugal), José Veiga, Dionisio Maia, Inês Gonçalves, Alexandre Mineiro, Salvador Coelho, Paula Cravo, Luisa Figueiredo, Joao Cardoso

**Chronic obstructive pulmonary disease with preserved lung function, severe hypoxemia and emphysema**
Vivien Danielo (Strasbourg, France), Benjamin Coiffard, Marianne Riou, Benjamin RenaudPicard, Matthieu Canuet, Romain Kessler

**Variation of maximal respiratory static pressures in different COPD severity group**
Ferdous Yangui (La Marsa, Tunisia), Khouloud Chaabi, Hela Cherif, Soumaya Debbiche, Mariem Triki, Hsen Ktifi, Mohamed Ridha Charfi

**ASSOCIATION BETWEEN NEUTROPHIL AND PLATELET TO LYMPHOCYTE RATIO AND DISEASE SEVERITY IN STABLE COPD**
Fabio Perrotta (San Nicola La Strada (CE), Italy), Vito D’Agnano, Mariano Mollica, Adriano Costigliola, Francesco Saverio Cerqua, Andrea Bianco, Bruno Moncharmont

**Spirometry and cardiopulmonary exercise test in lung resection surgery**
Nozha Ben Salah (Tunis, Tunisia), Hana Mrassi, Hana Blibeche, Houda Snen, Line Kaabi, Donia Belkhir, Asma Zaafouri, Nadia Mehiri, Bechir Louzir

**The change of the activity of the blood-salivary barrier (BSB) in patients with COPD**
1041 Can reversibility determine clinical course in patients with COPD?
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytriiev, Maria Shostatska

1042 Study over chronic obstructive pulmonary disease patients with hypercapnic respiratory failure
Gabriela Jimborean (Targu Mures (Mures), Romania), Edith Simona Ianosi, Lehel Mathe, Mioara Szatmary

1043 “Smoking” vs “non-smoking” COPD: how dramatic is the difference?
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytriiev, Maria Shostatska

1044 Telemonitoring in outpatients with COPD: a retrospective analysis of the effect on exacerbation rate, hospital admission and overall healthcare consumption using myCOPDcoach
Marlise de Roos (Amsterdam, Netherlands), Nynke Dijkstra, Paul Bresser, Herre Reesink

1045 Evaluation of neutrophil lymphocyte ratio and C-reactive protein values in the treatment of acute chronic obstructive pulmonary disease exacerbation according to endotype
Emine Aksoy (Istanbul, Turkey), Sercan Dadaş, Barış Yılmaz, Hasibe Erten, Merve Hörmet, Güzide Tomas, Eylem Tunçay, Sinem Güngör, Özlem Moçin, Nalan Adıgüzel, Gökay Güngör, Zuhal Karakurt

1046 COPD mortality after severe exacerbations
Irene Bocigas Huescar (Valencia, Spain), Lucia Fernández Presa, Carolina Lahosa, Cruz Gonzalez, Juan Antonio Carbonell, Jaime Signes-Costa

1047 Comparison of FEV1 and BODE INDEX in the assessment of health-related quality of life in patients with COPD
Nesrin Kallel (Sfax, Tunisia), Hajeur Ayedi, Wajdi Ketata, Khouloud Abdelmouleh, Samy Kamoun

1048 Which one is superior in predicting 30 and 90 days mortality after COPD exacerbation: DECAF, CURB-65, PSI, DOSE, BAP-65
Gülşan Karadeniz (Izmir, Turkey), Mine Gayaf, Filiz Güldaval, Gülrol Polat, Merve Türk

1049 Relationship between peak inspiratory flow and handgrip strength measurement in men with mild COPD
Yuko Komase (Yokohama, Japan), Takahiro Tsuburai, Satoshi Tanaka, Baku Ohyama, Hiromi Muraoka, Naoya Hida, Takayuki Kobayashi, Masaya Matsushima

1050 Study of heart rate variability in patients with chronic obstructive pulmonary disease
Umida Kamilova (Tashkent, Uzbekistan), Sobir Toshev, dilnoza tagaeva

1051 Evaluation Of Vitamin B12 and D, Folic Acid and Homocystein Levels In Stable COPD Patients
Muzaffer Onur Turan (Izmir, Turkey), Nurhan Koc, Pakize Ayse Turan, Ozer Ozdemir, Nevin Fazlıoğlu, Mehmet Koseoglu, Hayat Özkantar, Özgür Güney, Arzu Mirici

1052 Answering questions and challenges in the management of health smoking and COPD patients
Loli Uribe Echevarria (Córdoba, Argentina), Samanta Vergara, Ruth Alvarez, Ayelen Nigra, Amado Qintar, Maldonado Cristina

1053 Evaluation of 30 and 90 Day Hospital Readmission Rates in Severe COPD Exacerbations: Turkish Thoracic Society COPD Assembly

1054 Description of the COPD patients free of suffering severe exacerbations. Ten-year follow up of a cohort
Cristobal Esteban Gonzalez (Bilbao (Bizkaia), Spain), Amaia Aramburu, Ane Antón-Ladislao, Leyre Chasco, Francisco Javier Moraza, Susana Aizpíri, Maria Gorordo, Inmaculada Arostegui

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Late Breaking Abstract - The innate immune collectin surfactant protein SP-D binds to SARS-CoV-2 spike-protein
Raquel Arroyo (Cincinnati, United States of America), Shawn N Grant, Paul S Kingma
1056  LSC - 2020 - Streptococcus pneumoniae induces broad alterations in mitochondrial functions in human airway epithelial cells
Mahyar Aghapour (Magdeburg, Germany)

1057  COPD bronchial brush microbiome association with lung function and bronchial gene expression
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Koirobi Haldar, Michael Barer, Loem Ziegler-Heitbrock , Ivo Gut, Dave Singh, Christopher Brightling

1058  Analysis of defective phagocytosis in COPD using super-resolution microscopy and automated bacterial quantification
Riccardo Wysocki (Cambridge, United Kingdom), Jonathan R Baker, Peter Fenwick, Edwin Garcia, Sunil Kumar, Mark A A Neil, Christopher Dunsby, Paul M W French, Peter J Barnes, Louise E Donnelly

1059  Immunosuppression by cyclosporine A facilitates higher parainfluenza 3 virus replication in lower respiratory tract tissue ex vivo
Olga Danov (Hannover, Germany), Leonie Horie, Patrick Zardo, Peter Braubach, Danny Jonigk, Hans-Gerd Fieguth, Gregor Warnecke, Sabine Wronski, Armin Braun, Katherina Sewald

1060  Mesenchymal Stromal Cells Modulate the Systemic and Pulmonary Immune Cell Profile in Klebsiella Pneumoniae Induced Sepsis
Jack Brady (Galway, Ireland), Shahd Horie, Claire Masterson, Declan Byrnes, Hector Gonzalez, Daniel O'Toole, John Laffey

1061  Tiotropium and fluticasone inhibit rhinovirus-induced mucin production via multiple mechanisms in differentiated airway epithelial cells
Ying Wang (Leiden, Netherlands), Ying Wang, Dennis K. Ninaber, Annemarie Van Schadewijk, Pieter S. Hiemstra

1062  Relationship of the secretory immunoglobulin A (sIgA) and cortisol in pregnant women with chronic simple bronchitis associated with cytomegalovirus infection (CMV)
Igor N. Gorikov (Blagoveshchensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Victor P. Kolosov, Leonid G. Nakhamechen, Natalia A. Ishutina, Inna V. Dovzhikova

1063  Human rhinovirus 16 infection of human macrophages disrupts Arpin expression impairing macrophage internalization: a potential link to exacerbation in chronic obstructive pulmonary disease?
Jamil Jubrail (Edinburgh, United Kingdom), Kshanti Africano Gomez, Floriane Herit, Anna Mularski, Pierre Bourdoncle, Lisa Oberg, Elisabeth Issaelsk, Pierre Regis-Burgel, Gaell Mayer, Danen Cunoosamy, Nisha Kurian, Florence Niedergang

1064  Assessment of innate immunity mediators in the lung of COPD patients: relation with disease manifestations
Simonetta Baraldo (Padova (PD), Italy), Paolo Casolari, Matteo Bonato, Nicol Bernardinello, Luca Morandi, Marina Saetta, Alberto Papi, Marco Contoli

1065  Macrophages in lung and innervating ganglia express TLR7 and release nitric oxide
Becky Proskocil (Portland, United States of America), Allison Fryer, David Jacoby, Matthew Drake

1066  Using mouse tracheal epithelial cells (mTECs) to uncover an antiviral role for BPIFB1.
Abdulaziz Alkhoshaiban (Sheffield, United Kingdom), Priyanka Anujan, Lynne Bingle, Colin Bingle

1067  Analysis of adaptive CD8+ T cell responses to Influenza A Virus in COPD patients
Sophia Haines (Munich, Germany), Ilona Kammerl, Thomas Meul, Andreas Moosmann, Thomas Hofer , Elfriede Nössner, Marion Frankenberger, Jürgen Behr, Katrin Milger-Kneidinger, Silke Meiners

1068  Interferon responses are dysfunctional in the epithelium of COPD Patients
Rassin Lababidi (Oxford, United Kingdom), Jennifer Cane, Mona Bafadhel

1069  Acute exacerbations of COPD induce a prothrombotic state through platelet-monocyte complexes, endothelial activation and increased thrombin generation
Lisa van der Vorm, Li Li, Dana Huskens, Janine Hulstein, Mark Roest, Philip De Groot, Hugo Ten Cate, Bas De Laat, Jasper Remijn, Sami Simons

1070  Sputum macrophages in chronic bronchitis are activated, steroid resistant and drive epithelial MUC5B
Melker Göransson (Möldal, Sweden), Kristina Andelid, Anders Andersson, Karolina Öst, Zala Rojnik, Lowie Vanfleteren, Stephen Delaney

1071  A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in chronic obstructive pulmonary disease (COPD) lungs
Isabelle Dupin (Bordeaux, France), Edmée Eyraud, Elise Maurat, Pierre Vallois, Cécile Contin-Bordes, Pierre-Olivier Girodet, Matthieu Thumerel, Patrick Berger

1072  Improving automated cell recognition of sputum and BAL cells for Chipcytometry analysis
Saskia Carstensen (Hannover, Germany), Olaf Holz, Jens M. Hohlfeld, Bodo Rosenhahn, Meike Mueller
E-poster session: Genetics and biomarkers for diagnosis and prognosis of granulomatous lung diseases

**Disease(s):** Interstitial lung diseases, Airway diseases

**Method(s):** Cell and molecular biology, Endoscopy and interventional pulmonology, General respiratory patient care, Physiology, Epidemiology, Pulmonary function testing

**Chairs:** Jacobo Sellares Torres (Barcelona, Spain), Antje Prasse (Hannover, Germany)

**1073** Whole exome sequencing (WES) of a Chinese Han family with familial pulmonary sarcoidosis
QIAN ZHANG (BEIJING, China), QIAN ZHANG, Hui Huang, Zuojun Xu

**1074** Whole Exome Sequencing study in a subgroup of sarcoidosis patients presenting an opportunistic infection with Cryptococcus neoformans.
Alain Calender (Lyon, France), Thomas El Jammal, Florence Jeny, Pascal Seve, Hilario Nunes, Dominique Valeyre, Yves Pacheco

**1075** Homozygous mutations of ARFGEF1 gene in severe sarcoidosis
Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Pascal Sève, Yves Pacheco

**1076** Association of HLA variants with sarcoidosis in Korean population: pilot study
Martin Petřek (OLOMOUC, Czech Republic), Kateřina Sikorová, Miae Kim, Veronika Žižková, Su-Jin Moon, Jin Woo Song

**1077** Increased monocyte count and red cell distribution width represent negative prognostic markers in patients with Hypersensitivity Pneumonitis
Theodoros Karampitsakos (Athens, Greece), Evangelos Bouros, Ourania Papaioannou, Stamatios Tsipilis, Chrysoula Antonou, Maria Ntassiou, Serafeim Chrysikos, Aris Anagnostopoulos, Kuriaki Cholidou, Evangelia Koukaki, Matthias Katras, Vassilios Tzilas, Katerina Dimakou, Demosthenes Bouros, Argyrios Tzouvelekis

**1078** Increased fraction of small round lymphocyte in BALF is a diagnostic indicator for sarcoidosis
Yasushi Horimasa (Hirosshima, Japan), Kakuhiro Yamauchi, Shinjiro Sakamoto, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Hiroshi Iwamoto, Shinichiro Ohshimo, Kazunori Fujitake, Hironobu Hamada, Noboru Hattori

**1079** The role of TREM-1 and TREM-2 receptors in immunopathogenesis of pulmonary sarcoidosis and hypersensitivity pneumonitis
Eva Tedlova (Bratislava, Slovakia), Magda Suchankova, Jan Urban, Martina Ganovsky, Elena Tibenska, Kinga Szaboova, Ivan Majer, Marian Bobovcak, Imrich Jonner, Maria Bucova

**1080** The clinical significance of plasma and urine lysophospholipids-producing enzymes in patients with sarcoidosis
Koji Murakami, Hiroki Yamagami, Daisuke Saigusa, Masayuki Nara, Eisaku Miyauchi, Hitomi Aritake, Shunichi Gamo, Hisatoshi Sugiura, Yutaka Yatomi, Masakazu Ichinose

**1081** Comparison among BAL biomarkers in ILD discrimination and course prediction
Gregorino Paone (Roma (RM), Italy), Giulia De Rose, Daniela Pellegrino, Gabriele Lucantoni, Ilaria Cuccaro, Ilaria Menichini, Giorgia Leodori, Chiara Pellicano, Alfredo Sebastiani, Edoardo Rosato, Paolo Palange

**1082** MicroRNAs in serum of interstitial lung diseases patients.
Vladimir Yeremeev (Moscow, Russian Federation), Galina Shepelkova, Vladimir Evstifeev, Anna Zaytseva, Evgenia Adamovskaya, Alexander Guskov, Igor Stepanyan, Evgeniy Shmelev

**1083** Differential expression of miRNAs in Exhaled Breath Condensate (EBC) and EBUS-TBNA of patients with Mediastinal Tuberculosis and Pulmonary Sarcoidosis
Bijay Pattanaik (New Delhi, India), Sryma Pb, Saurabh Mittal, Anant Mohan, Anurag Agrawal, Randeep Guleria, Karon Madan

**1084** Morphological features in different course of sarcoidosis, forecast opportunity.
Olga Denisova (Tomsk, Russian Federation), Inna Palchikova, Galina Chernjavskaya, Igor Purlit, Tatiana Kalacheva, Georgy Chernogoryuk, Nikolay Shefe

**1085** Flow cytometric analysis of T cells maturation markers in mediastinal lymph nodes in sarcoidosis.
Elżbieta Rutkowska (Józefoslaw, Poland), Iwona Kwiecien, Joanna Bednarek, Rafal Sokolowski, Karina Jahnz-Różyk, Piotr Rzepecki

**1086** Analysis of CD4 lymphocyte profiles in sarcoidosis and idiopathic pulmonary fibrosis
Dingyuan Jiang (Beijing, China), Hui Zhang, Huaping Dai, Guowu Zhou, Yanhong Ren, Jing Geng, Bingbing Xie

**1087** Activity and phenotypes of angiotensin-converting enzyme (ACE) in sarcoidosis with various organ involvement
Laine Francuzевича (Moscow, Russian Federation), Alexander Bobkov, Larisa Akulkina, Michael Brovko, Victoria Sholomova, Denis Konovalov, Alisa Yanakaewa, Larisa Samokhodskaya, Tatiana Krasnova
Markers of resistance to corticosteroids therapy in patients with pulmonary sarcoidosis
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Ksenia Ostrovskak

The value of urinary calcium as biomarker in chronic sarcoidosis
Paolo Cameli (Siena (SI), Italy), Stefano Gonnelli, Elena Bargagli, Miriana D'Alessandro, Laura Bergantini, Dea Tomai Pitinca, Rosa Metella Refini, Maria Pieroni, Piersante Sestini, Carla Caffarelli

An association between sarcoidosis and serum immunoglobulin levels
Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Denis Konovalov, Eugene Stambolsky, Laine Francuzeviča, Marina Lebedeva, Leonid Strigakov, Larisa Samohodskaya, Tatyana Krasnova, Sergey Moiseev

Serum markers of acute sarcoidosis.
Evgeniya Adamovskaya (Moscow, Russian Federation), Vladimir Evstifeev, Evgenia Adamovskaya, Galina Shepelkova, Anna Zaytseva, Evgeniy Shmelev, Vladimir Yeremeev

The importance of cortisol level in differential diagnostic between lung tuberculosis and sarcoidosis
Mariya Banyonis (Smolensk, Russian Federation), Mariya Listopadova, Marina Karuk

Pre-congress content  Session 91  00:00 - 23:59
E-poster session: Asthma management: role of biomarkers and comorbidities

Disease(s) : Airway diseases
Method(s) : Pulmonary function testing  General respiratory patient care  Epidemiology  Cell and molecular biology

Chairs : Daniel Doberer (Wien, Austria), Chair to be confirmed

Evaluation of IL-17 and FEF25-75 in patients with uncontrolled moderate asthma
Elena Jovanovska Janeva (Skopje, North Macedonia), Dejan Dokic, Gorica Breskovska, Biserka Kaeva, Zlatica Goseva, Zoran Arsovska, Dejan Trakojk, Oligca Shepelkova, Magdalena Genadieva Dimitrova

Exploring the association between Socioeconomic status and asthma exacerbations: a real-world prospective cohort study in Chinese adults
Gang Wang (Chengdu (Sichuan), China), Xin Zhang, Li Zhang, Erik Melén, Lei Wang

Associations between inflammatory endotypes and phenotypes of obesity at young patients with bronchial asthma
Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Nataliya Gordeeva, Marina Mamaeva, Dmitriy Anikin

Effect of mepolizumab on chronic rhinosinusitis symptoms and nasal hypersensitivity in patients with or without nasal polyps
Nikoletta Rovina (Athens, Greece), Mairi Tsami, Marios Panagiotou, Ekaterini Syrigou, Nikolaos Koulouris

Pre-congress content  Session 92  00:00 - 23:59
E-poster session: Phenotypes of asthma and COPD

Disease(s) : Airway diseases
Method(s) : General respiratory patient care  Public health  Cell and molecular biology  Physiology  Epidemiology  Pulmonary function testing

Chairs : Apostolos Bossios (Stockholm, Sweden), Vibeke Backer (Copenhagen, Denmark)

Frequencies of Regulatory CD8 T Cells Reflect Disease Status in COPD
Jia Hou (Yinchuan, China), Hui Li, Zhigang Tian, Xiwei Zheng

Allergy Testing in Asthmatics and Severe Asthmatics in Belgium : Role of Comorbidities
Sandra Gurdain (Kraainem, Belgium), Jan Vanschoor, Stefaan Vancayzeele, Bram Flahou

Serum G-CSF is a non-invasive biomarker classifying bacterial/neutrophilic COPD exacerbations
Arindam Chakrabarti (San Ramon, United States of America), David Choy, Xiaoying Yang, Yi Cao, Wei Tew, Jordan Mar, Nisha Rathore, Olga Li, Michele Grimaldehyde, Christopher Brightling, Mona Bafadhel, Carrie Rosenberger
**1102** Characterisation of patients hospitalised for asthma exacerbations in Hong Kong
Ka Pang Chan (Hong Kong, Hong Kong), Fanny Wai San Ko, Kwun Cheung Ling, Lee Veronica Chan, Yue Hong Chan, Yi Tat Lo, Chun Kong Ng, Mei Sze Macy Lui, Kwok Sang Wilson Yee, Cee Zhung Steven Tseng, Pak Yiu Tse, Mo Lin Maureen Wong, Kah Lin Choo, Wai Kei Lam, Chun Man Wong, Sheng Sheng Alice Ho, Chun Tat Lun, Christopher Kei Wai Lai

**1103** Associations between eosinophil mediators and asthma characteristics in adults: the EGEA study
vanessa Granger (Paris, France), Farid Zerimech, Jinan Arab, Valérie Siroux, Patricia De-Nadai, Anne Tsicopoulos, Regis Matran, Zeina Akiki, Rachel Nadif

**1104** Obese asthmatics with impaired FRC show increased eosinophilic inflammation
Anna James (Stockholm, Sweden), Lars Andersson, Sven-Erik Dahlen, Apostolos Bossios, On Behalf Of Bioair Study Group

**1105** The German Severe Asthma Registry: Obesity is associated with asthma parameters
Christina Bal (Wien, Austria), Sabina Škrgat, Andrea Koch, Katrin Milger, Christian Schulz, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko

**1106** Neutrophilic asthma: a distinct phenotype?
Tessa Kole (Groningen, Netherlands), N.J. Ten Hacken, W. Timens, H.A.M. Kerstjens, M.C. Nawijn, M. Van Den Berge

**1107** Sputum IL-26 is overexpressed in Severe Asthma and induces proinflammatory cytokine production and Th17 cell generation: A case-control study of women
Besma Hamdi (Tunis, Tunisia), Sabrine Louhaichy, Mouna Mlika, Ikbel Khalfaallah, Jammel Ammar, Kamel Hamzaoui, Agnes Hamzaoui

**1108** Cytokine plasma levels in moderate-to-severe asthmatic children with different asthma control
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Nina Gorbacheva, Vasiliy Belenyuk, Svetlana Zobova, Marina Smolnikova

**1109** Neutrophilic asthma features increased airway classical monocytes
Michael Fricker (New Lambton Heights (NSW), Australia), Natalie Niessen, Katherine Baines, Jodie Simpson, Hayley Scott, Peter Gibson

**1110** Sputum mast cells associate with clinical and inflammatory features of asthma
Michael Fricker (New Lambton Heights (NSW), Australia), Ling Qin, Natalie Niessen, Katherine Baines, Hayley Scott, Jodie Simpson, Peter Gibson

**1111** Mechanisms of FeNO non-suppression in severe asthma: Analysis of sputum type 2 cytokines and chemokines
Simon Couillard (Oxford, United Kingdom), Rahul Shirimanker, Gareth Hynes, Catherine Borg, Clare Connolly, Anna Hayman, Sarah Poole, Angela Moran, Timothy Powell, Ian Pavord, Timothy Hinks

**1112** Assessing permeability biomarkers of dual responders in allergic asthmatics
Nicole van der Burg (Lund, Sweden), Henning Stenberg, Zuzana Diamant, Leif Bjerner, Ellen Tufvesson

**1113** Chronic cough is associated with higher levels of systemic immune inflammation index
Johnmary T. Arinze (Rotterdam, Netherlands), Leila Karimi, Emmely W. De Roos, Jesse Fest, Katia M. C. Verhamme, Bruno H. Stricker, Guy G. Brusselle

**1114** Chronic oral corticosteroids use and persistent eosinophilia in severe asthma. The Belgian Severe Asthma Registry.
Sophie Graff (Liège, Belgium), Sybren Vanwynsberghe, Guy Brusselle, Shane Hanon, Carine Solty, Lieven Dupont, Rudi Peche, Alain Michils, Charles Pilette, Guy Joos, Renaud Louis, Florence Schleich

**1115** An improved assay for detection of sputum periostin in patients with asthma
Anna James (Stockholm, Sweden), Junya Ono, Kenji Izuhara, Sven-Erik Dahlen, On Behalf Of Bioair Study Group

**1116** Is CCL18 a potential biomarker of type-2 asthma?
Helen Fouquet (Peyre, France), Jonathan Giovannelli, Patricia De Nadaï, Joanne Balsamelli, Patrick Berger, Arnaud Bourdin, Pascal Chanez, Stéphanie Fry, Thierry Perez, Antoine Magnan, Marina Pretolani, Camille Taillé, Anne Tsicopoulos, Cécile Chenivesse

**1117** Dupilumab reduces blood and nasal biomarkers of type 2 inflammation in patients with chronic rhinosinusitis with nasal polyposis with and without comorbid asthma: SINUS-52 trial
Claus Bachert (Ghent, Belgium), Joaquim Mullol, Nadia Daizadeh, Kelley Wolfe, Benjamin Ortiz, Robert Johnson, Yamo Deniz, Paul Rowe, Ledá Mannon, Nikhil Amin, Sivan Harel, Alexandre Jagerschmidt

**Pre-congress content Session 93  00:00 - 23:59**
E-poster session: Asthma and COPD: How genetic and environment influences its development?
### Session 1118
#### Associations between allergen-specific IgE sensitization and HLA class II alleles in the EGEA cohort
Valerie Siroux (La Tronche, France), Hubert Gheerbrant, Alicia Guillien, Christian Lupinek, Jean Bousquet, Florence Demenais, Frédéric Gormand, Rachel Ndif, Isabelle Pin, Christophe Pison, Rudolf Valenta, Emmanuelle Bouzigon

### Session 1119
#### Rhinovirus & IL33 driven HBEC gene signatures are disease & IL1RL1 polymorphism dependent
Michael Portelli (Loughborough, United Kingdom), Marco Londei, Dominick Shaw, Simon Johnson, Christopher Brightting, Ian Sayers

### Session 1120
#### Association of candidate genes with FeNO in asthma: preliminary results from the Gene Environment Interactions in Respiratory Diseases (GEIRD) study.
Simone Accordini (Verona (VR), Italy), Valentina Lando, Lucia Calciano, Cristina Bombieri, Giovanni Malerba, Giuseppe Verlato, Mario Olivieri

### Session 1121
#### Genetic vulnerability to air pollution-related decrease in lung function in elderly women
Sara Kress (Düsseldorf, Germany), Qi Zhao, Anke Hüls, Holger Schwender, Klaus Unfried, Tamara Schikowski

### Session 1122
#### Effect of systemic glucocorticoids on TRPM8 expression in asthma patients
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Elizaveta Sheludko, Evgeniya Afanaseva, Juliy Perelman, Yana Gorcakhova, Qi Li, Xiangdong Zhou

### Session 1123
#### Influence of particles from atmospheric pollution in female hormonal receptors in bronchi cells.
Juliana Smelan (São Paulo, Brazil), Juliane Almeida, Daniela Frias, Mitzi Brentani, Mariangela Macchione

### Session 1124
#### Risk of cancer in individuals with severe alpha-1-antitrypsin deficiency (PiZZ) compared with the Swedish general population
Adriana-Maria Hiller (Staffanstorp, Sweden), Magnus Ekström, Eeva Piitulainen, Anne Lindberg, Eva Rönmark, Hanan Tanash

### Session 1125
#### Oral commensals in the lower airways of COPD leads to an altered host immune tone
Imran Sulaiman (Dublin 8, Ireland), Benjamin Wu, Yonghua Li, Jun-Chieh Tsay, Adrienne Scott, Jose Clemente, Leopoldo Segal

### Session 1126
#### Human exome analysis of candidate genetic variants for susceptibility to high-altitude pulmonary edema in Japanese
Nobumitsu Kobayashi (Matsumoto (Nagano), Japan), Yunden Droma, Masao Ota, Masayuki Hanaoka

### Session 1127
#### Genetic polymorphisms of IL6, IL10, TNF-a and IL4R and associations with the risk of chronic obstructive pulmonary disease in a sample of Belarusian population.
Catherine Khotko (Minsk, Belarus), Aliaksei Kadushkin, Anatoli Tahanovich

### Session 1128
#### Role of TRPM8 polymorphisms in predisposition to COPD development in smokers
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Olesya Kotova, Dina Gassan, Elizaveta Sheludko, Evgeniya Afanaseva, Tatyana Mal'tseva, Ivana Sugaylo

### Session 1129
#### Effect of TRPA1 and TRPM8 polymorphisms on lung function in COPD
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Evgeniya Afanaseva, Elizaveta Sheludko, Ivana Sugaylo, Juliy Perelman

### Session 1130
#### Diagnosing alpha-1 antitrypsin deficiency in Romania - first 1000 cases tested
Ana-Maria Zaharie (Bucuresti (Sector 2), Romania), Valentin Caius Cosei, Alina Croitoru, Lavinia Davidescu, Joanna Chorostowska-Wynimko, Ruxandra Ulmeanu

### Pre-congress content
#### Session 94
**00:00 - 23:59**

**E-poster session: Novel directions in pleural disease: bench to bedside**

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

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

### Chairs: Kevin Blyth (Glasgow (Glasgow), United Kingdom), Duneesha De Fonseka (Sheffield, United Kingdom)

#### Analysis of circular RNAs expression profile in pleural metastases from lung adenocarcinoma
Qiang Xiao, Xi Li, Fu Rong

#### Utility of LDH-A in the differentiation between lymphocytic pleural effusions of malignantand non-malignant etiology
Nevenka Piskač Živković (Zagreb, Croatia), Linda Malnar, Ivona Kovačević
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<th>Session No.</th>
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<td>The smellprint of mesothelioma cells: intrinsic biomarkers for diagnosis and subtyping</td>
<td>Eline Janssens (Edegem, Belgium), Elly Marcq, Lore Vandermeersch, Christophe Walgraeve, Jan Van Meerbeeck, Kevin Lamote</td>
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<td>1134</td>
<td>The role of fibrocyte-like cells in combination treatment of immune checkpoint inhibitor with antiangiogenic agents</td>
<td>Atsushi Mitsuhashi (Tokushima, Japan), Tania Afroj, Atsuro Saigo, Kenji Otsuka, Hiroto Yoneda, Kazuya Koyama, Masamichi Sugimoto, Osamu Kondoh, Hiroshi Nokihara, Yasuhiro Nishioka</td>
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<td>1135</td>
<td>Effect of primary cilia-associated genes expression on the survival of mesothelioma patients: In silico investigation of TCGA data.</td>
<td>Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis</td>
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<td>1136</td>
<td>Potential role of ADAM (A Disintegrin And Metalloprotease) in malignant pleural mesothelioma resistance to chemotherapy.</td>
<td>Marine Bellefroid (, Belgium), Christelle Sépult, Celine Vanwinge, Alison Gillard, Bernard Duysinx, Christophe Poulet, Ahmed Debit, Agnes Noel, Didier Cataldo</td>
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<td>1137</td>
<td>Measurement of Natural antibodies (NAbS) against actin, DNA and trinitrophenol in the fluid of pleural effusion patients with various etiologies</td>
<td>Sotirios Zarogiannis (Larisa, Greece), Ioannis Sarrigeorgiou, Ourania Kotsiou, Erasmia Rouka, Garyfallia Perlepe, Konstantinos Gourgoulianis, Peggy Lymberi</td>
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<td>1138</td>
<td>The UK timed diagnostic lung cancer pathway: a pleural disaster</td>
<td>Avinash Aujayeb (newcastle, Mauritius), Karl Jackson</td>
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<td>1139</td>
<td>MULTIDISCIPLINARY APPROACH IN THE EVALUATION AND MANAGEMENT OF PATIENTS WITH MALIGNANT PLEURAL MESOTHELIOMA. A SINGLE CENTER EXPERIENCE.</td>
<td>Giulia Maria Stella (Pavia (PV), Italy), Claudio Valzia, Laura Saracino, Francesco Agustoni, Emma Pozzi, Pietro Rinaldi, Cristiano Primiceri, Matteo Bosio, Patrizia Morbini, Chandra Bortolotto, Angelo Corsico</td>
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<td>1140</td>
<td>Influence of psychological distress on symptom burden of patients admitted by malignant pleural effusion</td>
<td>Janet Rodriguez Torres (Granada, Spain), Maria Granados Santiago, Alejandro Heredia Curó, Esther Prados Román, Ascensión Rodríguez Rodriguez, Marie Carmen Valenza</td>
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<td>1141</td>
<td>In patients with treatment-sensitive cancers, does systemic anti-cancer therapy increase the chance of malignant pleural effusion control?</td>
<td>Nina Holling (Bristol, United Kingdom), Sonia Patole, Andrew Medford, Nick Maskell, Anna Bibby</td>
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<td>1143</td>
<td>Pleural pointillism and early contrast enhancement as imaging biomarkers of pleural malignancy</td>
<td>Selina Tsim (Glasgow (Glasgow), United Kingdom), Gordon W. Cowell, Geoffrey Martin, Laura Alexander, Caroline Kelly, Rosemary Woodward, John E. Foster, Kevin G Blyth</td>
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<td>1144</td>
<td>Isolated pleural thickening referred to pulmonologists - challenges and diagnosis</td>
<td>Philip Evans (Carmarthen, United Kingdom), Emma Shiels, Alina Ionescu</td>
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<td>1145</td>
<td>Computed tomography evidence of lymphangitis associated to malignant pleural effusion: its prevalence and impact on survival</td>
<td>Olalla Castro Añón (Lugo, Spain), Alexandra Dudina, Rachel Mercer, Eilab Bedawi, Vinneth George, David Mccracken, Rachelle Asciak, Maged Hassan, Rob Hallifax, Marie Carmen Valenza</td>
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<td>1146</td>
<td>Clinical long-term outcome of non-specific pleuritis (NSP) after surgical or medical thoracoscopy</td>
<td>Valentine Misnisti (Saint Etienne, France), Georgi Karpathiou, Stavros Anevlavis, Olivier Tiffet, Francois Casteillo, Paschalis Ntolios, Tiffany Trouillon, Michel Peoc'h, Marios E. Froudarakis</td>
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<td>1147</td>
<td>Mesothelioma is associated with ipsilateral thoracic muscle loss</td>
<td>Andrew C Kidd (Glasgow (Glasgow), United Kingdom), Alan Winter, Laura Miller, William Baird, Craig Dick, Dominic Pearce, William Sloan, Gordon W Cowell, Colin Noble, Audrey Smith, Paul Westwood, Tracey Hopkins, Nicola Williams, Harriet Walter, Amy King, Dean Fennell, Kevin G Blyth</td>
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<td>1148</td>
<td>Efficacy of Pleurodesis and EGFR TKI in the Treatment of Lung Cancer-mediated Pleural Effusion with EGFR Mutation</td>
<td>Kunlin Li (Chongqing (Chongqing), China), Qian Zhao, Peng Zhang</td>
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<td>1149</td>
<td>Sensitivity of PD-L1 analysis from pleural effusion in non-small cell lung cancer</td>
<td>Simon Dominik Herkenrath (Köln, Germany), Lars Hagmeyer, Marcel Trel, Sandhya Matthes, Kerstin Richter, Khosro Hekmat, Matthias Heldwein, Stephan Schäfer, Reinhard Büttner, Marianne Engels, Winfried Randerath</td>
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Pre-congress content

Session 95

E-poster session: Different aspects of paediatric viral and bacterial lung infections

**Disease(s):** Airway diseases

**Method(s):** Imaging, Cell and molecular biology, General respiratory patient care, Epidemiology, Physiology, Public health, Pulmonary function testing

**Chairs:** Refiloe Masekela (Pretoria, South Africa), Chair to be confirmed

**1150** Lymphocyte count as an early marker for severe bronchiolitis
Luigi Matera (Frasco Telesino Bn, Italy), Raffaella Nenna, Antonella Frassanito, Ambra Nicolai, Laura Petrarcia, Enrica Mancino, Greta Di Mattia, Domenico P. La Regina, Elio Iovine, Annita Apicella, Vincenzo Ferraro, Fabio Midulla

**1151** The roles of human bocavirus and human metapneumovirus in lower respiratory tract infections in children
Dilber Ademhan Tural (Ankara, Turkey), Ebru Yalcin, Nagehan Emiralioglu, Alparslan Alp, Onur Gozmen, Beste Ozsezen, Birce Sunman, Deniz Dogru, Ugur Ozcelik, Nural Kiper

**1152** Discovering the molecular determinants in rhinoviruses by virus-genotype to disease-phenotype association in paediatrics patients in Hong Kong
Chun Sang PUN (Hong Kong, Hong Kong), Hai Chao Wang, Kin Pong Tao, Gar Shun Tsun, Wai Yin Yu, Xia Yuan Chen, Maggie Haitian Wang, Paul Kay-Sheung Chan, Ting Fan Leung, Wan Yi Renee Chan

**1153** Risk for asthma following pneumonia in infancy - a nationwide register-based cohort study with family design
Samuel Rhedin (Stockholm, Sweden), Cecilia Lundholm, Emma Caffrey Oswald, Catarina Almqvist

**1154** Ultrasound pneumonia dimensions in children and inflammation
Ioana Mihaela Ciuca (Timisoara (Timis), Romania), Monica Marc, Flavian Nicolae Mircov, Mihaela Dediu, Liviu Pop

**1155** Effect of point-of-care lung ultrasound on treatment outcomes in children: A systematic review
Justus Simba (Thika, Kenya), Ian Sinha, Patrick Mburugu, Musa Kaleme, Caren Emadau, Krishna Harave, Helen Nabwera

**1156** To document pneumonia case management practices in selected communities in Pakistan; a qualitative study.
Hana Mahmood (Pakistan), Hira Kiani, Yahya Sheraz, Tabish Hazir

**1157** Paediatric necrotizing pneumonia: single tertiary center experience
Salma Gamal Abdelhady (Cairo, Egypt), Eman Fouda, Amira Moharram

**1158** Evaluation of noncystic fibrosis bronchiectasis: six-year single center experience
Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Nazan Çobanoğlu

**1159** The clinical and microbiological features of PBB in children and the risk factors for chronic bronchitis development
Svetlana Ilenko (Donet, Ukraine), Anastasiia Fialkovska, Svitlana Ivanus

**1160** Growth faltering predicts protracted bacterial bronchitis in children with chronic cough
Ishani Ghosh (Blackpool, United Kingdom), Caroline Beardmore, Helen Beckett, Manjith Narayanan

**1161** Heterogeneity of children with protracted wet cough according to results of cluster analysis
Evgeni Furman (Perm (Perm Krai), Russian Federation), Elena Mazunina, Tatyana Evseenkova, Valerii Shehudo

**1162** ADAPTATION TO DISEASE AND ANXIETY-DEPRESSIVE CLINIC IN THE PAEDIATRIC PATIENT WITH PRIMARY CILIARY DYSKINESIA
Silvia Castillo Corullón (Torrent (Valencia), Spain), Selene Valero-Moreno, Marián Pérez-Marín, Inmaculada Montoya-Castilla

**1163** Assessment of risk factors for the formation of polyorgan tuberculosis in children infected with M TB
Anna Mordyk (Omsk, Russian Federation), Nadejda Porculevich

**1164** DTX3L mediated regulation of TBK1 positively regulates type I IFN signaling pathway and cellular antiviral response
Chuangli Hao (Suzhou (Jiangsu), China), Jiaqi Huang, Yu Ma

**1165** Neutrophil Extracellular Traps (NETs) increase mucus viscoelasticity
Rosalie S.N. Linssen (Amsterdam, Netherlands), Guilhong Chai, Jonathan Ma, Apparao Kummarapurugu, Job B.M. Van Woensel, Reinout A. Bem, Logan Kaler, Gregg Duncan, Lei Zhou, Bruce K. Rubin, Qingguo Xu

**1166** Dynamics of serotypic composition of nasopharyngeal pneumococcal isolates in children pneumococcal nasopharyngeal colonization after the introduction of the vaccination program in Moscow
Anna Lazareva (Moscow, Russian Federation), Natalia Alyabyeva, Ekaterina Brzhovskaya, Olga Shamina
E-poster session: Respiratory physiology and sleep: new approaches to diagnosis and treatment

**Disease(s):** Sleep and breathing disorders, Airway diseases, Respiratory critical care, Patient care

**Method(s):** Pulmonary function testing, Respiratory intensive care, Imaging, Surgery, Physiology, Public health, General respiratory

**Chairs:** Athanasios G. Kaditis (Athens, Greece), Kathryn Ramsey (Bern, Switzerland)

**Abstracts:**

1167 Long term follow up of antenatally detected congenital lung malformation suggests lung health is not dependent on early surgery.
Kenneth A Macleod (Edinburgh, United Kingdom), Paul Burns, Mahmoud M Marei, Louise Thomson

1168 Patterns of changes of the flow-volume curve in Duchenne Muscular Dystrophy (DMD)
Antonella LoMauro (Milano (MI), Italy), Erardo Marchi, Grazia D'Angelo, Andrea Aliverti

1169 Spirometry improvement is similar for Australian children treated at outreach clinics and tertiary hospitals.
Andrew Collaro (South Brisbane, Australia), Anne B Chang, Julie Marchant, Ian Brent Masters, Leanne Rodwell, Mark Chatfield, Margaret McElrea

1170 Early childhood outcomes of Robin sequence in United Kingdom & Ireland according to nature and management of upper airway obstruction
Marie Wright (Vancouver (BC), Canada), Felicity Mehendale, Edile Murdoch, Patricia Jackson, Sheila Javadpour, Don Urquhart

1171 Outcome differences in multiple-breath washout devices are explained primarily by sensor characteristics
Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreich, Kathryn Ramsey, Philipp Latzin

1172 FIREFISH Part 2: Efficacy and safety of risdiplam (RG7916) in infants with Type 1 spinal muscular atrophy (SMA)
Giovanni Baranello (London, United Kingdom), Giovanni Baranello, Laurent Servais, Riccardo Masson, Maria Mazurkiewicz-Beldzińska, Kristy Rose, Dmitry Vlodavets, Hui Xiong, Edmar Zanoteli, Muna El-Khairi, Sabine Fuerst-Recktenwald, Marianne Gerber, Ksenija Gorni, Heidemarie Kletzl, Renata Scalcò, Basil T. Darras

1173 Ventilation inhomogeneity and exercise capacity in children with BPD and CF
Elpis Hatzigiorougou (Thessaloniki, Greece), Eleanna Kouroukli, Kosmas Sarafidis, John Tsanakas

1174 Reference range for oscillometry in healthy South African preschool children
Shaakira Chaya (Mokopane, South Africa), Rae Macginty, Carvern Jacobs, Zoltán Hantos, Shannon Simpson, Heather Zar, Diane Gray

1175 Investigation of Cardiovascular System Findings and Affecting Factors Before and After Adenotonsillectomy Operation in Children with Obstructive Sleep Apnea Accompanied by Adenotonsillar Hypertrophy

1176 Comparison of Impulse Oscillometry With Spirometry in Patients With Non Cystic Fibrosis Bronchiectasis
Cansu Yilmaz Yegit (Istanbul, Turkey), Pakize Cennetoğlu, Pınar Ergenekon, Ela Erdem Erulup, Yasemin Gökdemir, Bulent Karadag

1177 Blood capillary volume as a determinant of high DLCO in subjects living at moderate altitude.
Ada Nelly De los Santos (10902, Dominican Republic), Ada Nelly De los Santos, Edgar Alejandro Reyes, Laura Gochicoa, Luis Torres-Boutsolet, Rogelio Pérez

1178 Long-term course of lung clearance index among patients with cystic fibrosis
Elpis Hatzigiorougou (Thessaloniki, Greece), C Mangiourou, I Lialias, E Kouroukli, P Talimzti, L Nousia, S Kirvassili, J Tsanakas

1179 VALIDITY OF A HOME RESPIRATORY POLYPGRAPHY (HRP) FOR DIAGNOSIS OF OBSTRUCTIVE SLEEP APNEA (OSA) IN CHILDREN
Paula Rodriguez (Vitoria Gasteiz (Álava), Spain), Esther Oceja, Sandra Inglés, Jose Cordero, Mari Luz Alonso, Ana Isabel Navazo, Jaime Corral, Juan Fernando Masa, Mónica González, Maria Angeles Martínez, Maria Jose Jurado, Félix Pumarola, Milagros Merino, Carmen Martinez, Carmen Luna, Alvaro Gimeno, Santiago Juarros, Milagros Del Olmo, Genoveva Del Rio, Teresa Gómez, Maria Angeles Villar, Silvina Mónica Terceros, David Gozal, Leyla Gozal, Joaquín Durán

1180 Sleep related hypoventilation: should the paediatric definition be revised?
Rosário Ferreira (Lisbon, Portugal), Ana Lemos, Lia Oliveira, Ángela Drago, Andreia Descaño

1181 Intra-breath and spectral oscillometry in preterm-born children
Rhea Urs (Perth (WA), Australia), Denby Evans, Graham Hall, Shannon Simpson
Relevance of nasal nitric oxide measurements using tidal breathing method for screening primary ciliary dyskinesia in young children
Nicole Beydon (Paris, France), Aline Tamalet, Estelle Escudier, Gregory Jouvion, Marie Legendre, Guillaume Thouvenin

Overnight gas exchange and ventilatory support in spinal muscular atrophy type 2 patients after 12 months of nusinersen treatment
Uros Krivec (Ljubljana, Slovenia), Aleksandra Zver, Dusanka Lepej, Ana Kotnik Pirs, Marina Praprotnik, Sasa Setina Smit, Tita Butenko, Damjan Osredkar

Sleep, work of breathing and effect of continuous positive airway pressure in children with chronic heart failure
Alessandro Amaddeo, Diala Kraiche, Sonia Khirani, Mathilde Meot, Damien Bonnet, Brigitte Fauroux

E-poster session: Interventional pulmonology: diagnostic and therapeutic approaches

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

Chairs: Daniela Gompelmann (Heidelberg, Germany), Sahajal Dhooria (Chandigarh (Uttar Pradesh), India)

Late Breaking Abstract - Complication rates for bronchoscopy procedures performed at a large UK tertiary teaching hospital.
Elinor Crisp (Nottingham, United Kingdom), Yu Kwong Wong, Abhilash Nair

Late Breaking Abstract - Radial endobronchial ultrasound guided transbronchial cryobiopsy with fluoroscopy in the diagnosis of peripheral pulmonary nodule: first experience in the Hospital of UHS Kauno Klinikos
Vytautos Ankudavicius (Kaunas, Lithuania), Marius Zemaitis, Skaidrius Miliauskas

Late Breaking Abstract - New centre experience in virtual bronchoscopic navigation in combination with fused fluoroscopy to target solitary pulmonary nodules
Faustina Funke (Essen, Germany), Jane Winantea, Kaid Darwiche

Transbronchial lung cryobiopsy may be of value for nonresolving acute respiratory distress syndrome: case series and systematic literature review
Guowu Zhou (, China), Shiyao Wang, Yingying Feng, Qingyuan Zhan, Jing Geng

Transbronchial cryobiopsies in a real-life setting: Results from a Dutch, non-academic hospital
Roos Joosten (NIJMEGEN, Netherlands), Michiel Spanbroek, Julius Janssen, Willem Vreuls, Anneke Van Veen, Rob Janssen, Jürgen Hölters

Transbronchial lung cryobiopsy in interstitial lung disease: safety & learning curve
Johannes M.A. Daniels (Amsterdam, Netherlands), Suzan F.M. Nijman, Gerrita Rutter, Esther J. Nossent

Complications - based learning curve of transbronchial lung cryobiopsy in diffuse parenchymal lung diseases
Edita Strumiliene (Vilnius, Lithuania), Vygantas Gruslys

Endoscopic treatment of tracheo-oesophageal fistulae: an innovative procedure
Giovanni Galluccio (Roma, Italy), Gabriele Lucantoni, Sofia Romani, Raffaele Dello Iacono, Sandro Batzza

Bacterial Colonization of Airway Stents and The Effect of Colonization on Stent Course
Binnaz Zeynep Yildirim (Istanbul, Turkey), Elif Tanriverdi, Demet Turan, Efsun Gonca Chousein, Mehmet Akif Ozgul, Erdogan Cetinkaya

Y-stent for tracheal tear under extracorporeal membrane oxygenation (ECMO): A success story
Nurul Yaqeen (Batu Caves (Selangor), Malaysia), Mona Zaria Nasarudin, Jamalul Azizi Abdul Rahman

Bronchoscopic Valve Implantation for Major Hemoptysis
Kathleen Jahn (Basel, Switzerland), Daiana Stolz, Michael Tamm

Usefulness of topical Mitomycin C application via rigid bronchoscopy in the management of tracheal stenosis
Asad Anwar (London, United Kingdom), Nordita Ramos Bascon, Natalie Barnes, Brendan Patrick Madden

Flexible bronchoscopy as the first-line strategy for extraction of tracheobronchial foreign bodies>
João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal), Sofia Rodrigues Sousa, Ligia Fernandes, Yvette Martins, Fernando Barata

Safety of therapeutic bronchoscopy in interventional pulmonology suit
Blanca De Vega Sanchez (Valladolid, Spain), Carlos Disdier Vicente, Sofia Jaurrieta Largo, Marta Belver Blanco, Maria Jose Chourio Éstabah, Santiago Juarros Martinez, Vicente Roig Figueroa
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<td>Katharina Schütz (Hannover, Germany), Christoph Happel, Julia Carlens, Carsten Müller, Martin Wetzke, Alexander Backendorf, Gesine Hansen, Philipp Beerbaum, Harald Bertram, Nicolaus Schwerk</td>
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<td>Chanel Kwok (Ottawa (ON), Canada), Kayvan Amjadi</td>
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<td>Sabrine Louhaichi (Ariana, Tunisia), Ikbel Khalifallah, Besma Hamdi, Asma Allouche, Alaa Radhouani, Jalel Ammar, Taher Mestiri, Agnès Hanzaoui</td>
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<td>Is it Time for Endobronchial Therapy to Replace Surgery in the Treatment of Typical Endobronchial Carcinoid?</td>
<td>Alma Teferici (Tirana, Albania), Eritjan Tashi, Ilir Peposhi, Daniela Xhemalaj, Fahri Kokici, Perlat Kapiszy</td>
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<td>Endobronchial autologous blood patch for treatment of persistent air leak. A simple and accessible technique to treat peripheral broncho-pleural fistula.</td>
<td>Hasan Allah Sadeghi (Tehran, Islamic Republic of Iran)</td>
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<td>Feasibility and safety of endoscopic microwave ablation for malignant central airway obstruction; a case series.</td>
<td>Michal Senitko (Flowood, United States of America), George Abraham</td>
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**Pre-congress content**

**Session 98**

**E-poster session: Novel mechanisms and management of paediatric asthma**

**Method(s):** Cell and molecular biology  Epidemiology  Public health  General respiratory patient care  Physiology  Pulmonary function testing

**Chairs:** Sejal Saglani (London, United Kingdom), Michael Kabesch (Regensburg, Germany)

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<td>Biologicals in the treatment of severe asthma in children: A PERMEABLE assessment of the current practice in Europe</td>
<td>Michael Kabesch (Regensburg, Germany), Heike Buntrock-Döpcke, Jakob Niggel, Korneliusz Golebski, Cornelis Van Drunen, Susanne Reinarts, Uroš Potočnik, Erik Melén, Anke-Hilse Maitland-Van Der Zee, Susanne Vijverberg</td>
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<td>Respiratory modulation of the pulse oximeter plethysmogram amplitude as a marker of severity in acutely wheezy young children</td>
<td>Paul Seddon (West Sussex, United Kingdom), David Wertheim, Oana Anton, Catherine Olden, Paul Seddon</td>
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<td>Identifying T-lymphocytes in the sputum of children with acute asthma</td>
<td>Megan Philpot (Leicester, United Kingdom), David Cousins, Erol Gaillard</td>
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<td>Effect of nasal polivalent bacterial lysate on the clinical course of seasonal allergic rhinitis in children - preliminary study.</td>
<td>Magdalena Kowalska (Lublin, Poland), Andrzej Emeryk, Kamil Janeczek, Iwona Czerwińska Pawluk</td>
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<td>Elevated type I collagen degradation predicts persistent asthma in children</td>
<td>Sarah Ronnow (Herlev, Denmark), Benjamin Hoffmann-Petersen, Jannie Marie Bülow Sand, Morten Karsdal, Helene Marlies Rasmussen, Lone Agertoft, Diana Julie Leeming, Grith Lykke Sorensen</td>
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<td>Metabolomics applied to exhaled breath condensate in asthmatic children treated with inhaled steroids</td>
<td>Valentina Agnese Ferraro (Rosa’ (VI), Italy), Silvia Carraro, Paola Pirillo, Gabriele Polonaito, Matteo Stocchero, Giuseppe Giordano, Stefania Zanconato, Eugenio Baraldi</td>
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<td>Accuracy of blood eosinophil count in predicting sputum eosinophils in children with problematic severe asthma (PSA)</td>
<td>Benjamin Davies (Derby (Derbyshire), United Kingdom), Sue Frost, Satish Rao, David Thickett, Sejal Saglani, Prasad Nagakumar</td>
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<td>Identification of disease-specific molecular breath profiles in patients with allergic asthma</td>
<td>Ronja Weber (Männedorf, Switzerland), Srdjan Micic, Bettina Streekench, Lara Welti, Tobias Bruderer, Nathan Perkins, Demet Inci, Jakob Usemann, Alexander Möller</td>
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<td>Familial co-aggregation of asthma and type 1 diabetes mellitus in children- a Swedish population-based cohort study</td>
<td>Awad I. Smew (Stockholm, Sweden), Cecilia Lundholm, Lars Sävendahl, Paul Lichtenstein, Catarina Almqvist</td>
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<td>Pulmonary function test results in young athletes and sedentary children</td>
<td>Oleksandr Onikiienko (Kharkiv, Ukraine), Valenty Polyakov, Ganna Senatorova, Margaryta Gonchar</td>
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<td>Drug-induced sleep-endoscopy in OSA children: What do we see?</td>
<td>Silke Anna Theresa Weber (Botucatu (SP), Brazil), Antonio Carlos Marão, Jefferson Luis De Barros, Camila Castro Correa</td>
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<td>Intestinal microbiota in children with obstructive sleep apnea syndrome</td>
<td>Melania Evangelisti (Roma (RM), Italy), Marta Arpinelli, Manuela Cecili, Marilisa Montesano, Mario Barreto, Marina Borro, Maria Pia Villa</td>
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<td>Nusinersen stabilises respiratory function in paediatric spinal muscular atrophy</td>
<td>Archana Chacko (Brisbane, Australia), Sean Deegan, Leanne Gaud, Peter Sly</td>
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<td>Central and obstructive apnoea-hypopnea indices pre and post growth hormone commencement in children with Prader-Willis syndrome following introduction of a screening programme</td>
<td>Damilola Modupe Oladele (Southampton, United Kingdom), Hasitha Gajaweera, Johanna Gavlak, Justin Davies, Gary Connett, Hazel Evans</td>
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<td>Cut-offs for snoring index in children suspected of obstructive sleep apnea</td>
<td>Nicole Beydon (Paris, France), Claire Le Thai, Fatima Lacin</td>
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<td>Sleep disordered breathing in children with Down Syndrome: impact on motor development</td>
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<td>Pulmonary hypertension and obstructive sleep apnea syndrome - Marmara University Pediatric Sleep Laboratory experience</td>
<td>Cansu Yilmaz Yegit (Istanbul, Turkey), Pinar Ergenekon, Ela Erdem Eralp, Yasemin Gokdemir, Figen Akalin, Ayse Yildirim, Metem Sabanci, Bulent Karadag</td>
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<td>Assessing global and regional pulmonary function with electrical impedance tomography in pediatric patients: the EIT-derived flow-volume loops</td>
<td>Chuong Ngo (Aachen, Germany), Sylvia Lehmman, Eva Verjans, Klaus Tenbrock, Steffen Leonhardt</td>
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<td>Polysomnography findings in children with mucopolysaccharidoses</td>
<td>Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Birce Sunman, Omer Faruk Ipek, Kubra Kilic, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Nural Kiper, Serap Sivri, Ugur Ozcelik</td>
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### Pre-congress content

**Session 100**

**E-poster session: Phenotypes of obstructive diseases**

**Disease(s):** Airway diseases

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

**Chairs:** Andriana Papaioannou (Vrilissia (Athens), Greece)

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<td>Is the strength of the type-2 (T2) inflammatory biomarker signal important in determining the burden of disease in severe asthma (SA)?</td>
<td>Lauren Fox (Southampton, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Peter Howarth, Anoop Chauhan</td>
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<td>Characterisation of the neutrophilic phenotype over time.</td>
<td>Claudia Blouin (Québec, Canada), Krystelle Godbout, Marie-Eve Boulay, Anurag Bhalla, Parmeswaran Nair, Louis-Philippe Boulet, Andrèanne Côté</td>
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<td>Tamara Alonso Perez (Madrid, Spain), Elena Garcia Castillo, Julio Ancochea, Maria Teresa Pastor Sanz, Pere Almagro, Pablo Martinez Cambor, Marc Miravitlles, Mónica Rodríguez-Carballeira, Annie Navarro, Bernd Lamprecht, Ana S Ramírez-García Luna, Bernhard Kaiser, Inmaculada Alfageme, Ciro Casanova, Cristóbal Esteban, Juan J Soler-Cataluña, Juan P De-Torres, Bartolome R Celli, Jose M Marin, Jose L Lopez-Campos, Gerben Ter Riet, Patricia Sobradillo, Peter Lange, Judith Garcia-Aymerich, Josep M Anto, Alice M Turner, Meilan K. Han, Arnulf Langhammer, Alice Sternberg, Linda Leivseth, Per Bakke, Ane Johanssen, Toru Oga, Borja Costo, Andres Echazarreta, Nicolas Roche, Pierre-Régis Burgel, Don D Sin, Milo A Puhlan, Joan B Soriano</td>
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<td>Bronchiectasis and airway eosinophilia in severe asthma—is there an association?</td>
<td>Anna von Bülow (Vedbaek, Denmark), Vibeke Backer, Celeste Porsbjerg</td>
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<td>The rate of re-exacerbation in patients hospitalized with eosinophil and non-eosinophilic COPD relapses</td>
<td>Balázs Csoma (Budapest, Hungary), András Bíkov, Gergő Szücs, Veronika Müller, Zsófia Lázár</td>
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Urinary metabolomics-profiling of the U-BIOPRED asthma study identified biochemical clusters associated with asthma severity
Craig Wheelock (Stockholm, Sweden), Stacey Reinke, Johan Kolmert, Shama Naz, Romanas Chaleckis, Peter Sterk, Fan Chung, Ian Adcock, Ratko Djukanovic, Sven-Erik Dahlen, The Ubiopred Study Group

Pathology of small airways in non-COPD smokers with low diffusion capacity and patients with COPD
Makoto Shindo (Kyoto, Japan), Naoya Tanabe, Atsuyasu Sato, Kiyoshi Uemasu, Hiroshi Shima, Tatsushi Mizutani, Emiko Ogawa, Shigeo Muro, Susumu Sato, Toyo Hiro Hirai

Regional ventilation distribution in emphysema and non-emphysema regions affects diffusion capacity in COPD
Hiroshi Shima (Kyoto, Japan), Naoya Tanabe, Tsuyoshi Oguma, Satoshi Kozawa, Takeshi Kubo, Kaori Togashi, Atsuyasu Sato, Susumu Sato, Toyo Hiro Hirai

Long-term prognosis of new adult-onset obese asthma
Pinja Ilmarinen (Seinäjoki, Finland), Adrienn Pardo, Leena E. Tuomisto, Iida Vähätalo, Onni Niemelä, Pentti Nieminen, Hannu Kankaanranta

The SAQ is a valid quality of life measure in severe asthma: the mini-AQLQ and ACQ both measure symptoms
Matthew Masoli (Plymouth (Devon), United Kingdom), Joseph Lanario, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Rupert Jones

COPD phenotypes by computed tomography and ventilatory response to exercise
Sofia Rodrigues Sousa (Braga, Portugal), Margarida Pimenta Valério, João Nunes Caldeira, Cidália Rodrigues, Ana Figueiredo, Fernando Barata

The frequent exacerbator phenotype in asthma: a clinical characterization
Vitina Carriero (Orbassano, Italy), Andrea Sprio, Stefano Levra, Carlotta Botto, Francesca Bertolini, Fabio Luigi Massimo Ricciardolo

Relationship between quality of life and disordered physiology and cytology in asthma: a retrospective study from a secondary care center
Gilles Louis (Liège, Belgium), Benoit Pétré, Florence Schleich, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Michèle Guillaume

The role of enterotoxins in severe asthma
Pinelopi Schoini (Cholargos, Greece), Zervas Eleftherios, Ntontsi Polyxeni, Apollonatou Vasiliki, Sfika Maria, Mplizou Myrto, Tyligada Ekaterini, Kakolyri Maria, Foukas Periklis, Pouliafas Avraam, Koufopoulos Nektarios, Tsoukalas Georgios, Giga Mina, Papiris Spyridon, Koulouris Nikolaos, Bakakos, Loukides Stylianos

Comparison of two published definitions of sputum neutrophilia show clinical measures of disease are more severe in neutrophilic asthma (NA) than non-neutrophilic asthma (NNA) using >40% sputum neutrophils as the definition of disease.
Clair Barber (Southampton (Hampshire), United Kingdom), Jon Ward, Scott Elliott, Laurie Lau, Adnan Azim, Kerry Gove, Hitasha Rupani, Thomas Brown, Anoop Chauhan, Karl J Staples, Peter H Howarth

Data-driven questionnaire based cluster analysis of asthma in Swedish adults.
Marta Alina Kisiel (Uppsala, Sweden), Josefin Sundh, Björn Stållberg, Karin Lisspers, Andrei Malinovschi , Hanna Sandelowsky, Scott Montgomery, Anna Nager, Christe Janson

Using characteristics of asthma phenotypes to determine exacerbation severity
Erik Duijvelaar (Amsterdam, Netherlands), Marijke Amelink, Cristina Longo, Anirban Azim, Kerr Gove, Hitasha Rupani, Thomas Brown, Anoop Chauhan, Karl J Staples, Peter H Howarth

Bioelectrical impedance vector analysis in COPD patients with right heart failure

Pre-congress content
Effects of continuous chest wall vibration on dyspnoea and exercise tolerance in patients with chronic obstructive pulmonary disease: a randomized controlled trial.
Simone Pancera (Manerbio, Italy), Riccardo Buraschi, Chiara Arienti, Stefano Moschin, Stefano Negrini, Luca Bianchi

The use of a shortened Multiple Breath Washout in the assessment of airway clearance in patients with COPD.
Enya Daynes (Leicester, United Kingdom), Neil Greening, John Owens-Bradley, Sally Singh, Salman Siddiqui

Short-term Impact of Lung Flute and Inspiratory Muscle Trainer on Pulmonary Functions and Functional Capacity in COPD from a Low Middle Income Country: A Pilot Randomized Control Trial.
Cherishma Dsilva (Mangalore, India), Sudeep Mario Joseph Pais, Don Gregory Mascarenhas

A randomised controlled trial of lung volume recruitment in people with neuromuscular disease
Nicole Sheers (NORTHCOTE, Australia), Mark Howard, Linda Rautela, Caroline Chao, Peter Rochford, David Berlowitz

Airway clearance techniques in patients with bronchiectasis. Data from the EMBARC Registry.
Arietta Spinou (London, United Kingdom), Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre Regis-Burgel, Felix Ringshausen, Anthony De Soyza, Michal Shteinberg, Amelia Shoemark, Montserrat Vendrell, Eva Polverino, Charles Haworth, Katerina Dimakou, Michael R. Loebinger, Antoni Torres, Tobias Welte, Stuart J Elborn, Pieter C Goeminne, James D. Chalmers, Beatriz Herrero-Cortina

Patient and public involvement (PPI) to inform a survey on airways clearance treatments in bronchiectasis.
Katherine O’Neill (Belfast, United Kingdom), Rebecca Magrath, Brenda O’Neill, Jeanette Boyd, Chloe Gilfillan, James D. Chalmers, Judy M. Bradley

Respiratory physiotherapy: Process mapping to target quality improvement and scope areas for future research
Katherine O’Neill (Belfast, United Kingdom), Rebecca Magrath, Oonagh Hewitt, Ruth Redfern, Judy M. Bradley

The effect of Simeox airway clearance technology on resting hyperinflation in Cystic fibrosis patients
Mathilde Proffit (France), Marie Magni, Gilles Desbois, Laurent Morin

Inhaled mannitol in cystic fibrosis: clinical experience in Verona CF centre
Priscilla Flavia Bogoni (verona, Italy), Riccardo Guarise, Anna Meschi, Sara Tomezzoli, Giuseppe Daniele Zambito, Anna Malvezzi, Milva Sanguanini, Alessandra Zamini, Antonella Borruso, Marco Cipolli

Physiotherapy to prevent hospital-acquired pneumonia in patients undergoing hip fracture surgery
Elisabeth Westerdahl (Örebro, Sweden), Anna Ståhl

Electrical impedance tomography in the evaluation of effectiveness of chest physiotherapy
Anna Folino (Torino, Italy), Sheila Beux, Laura Barrocu, Irene Esposito, Elvira Rizza, Manuela Goia, Lorenzo Appendini, Elisabetta Bignamini

Mechanical insufflation-exsufflation for the prevention and treatment of respiratory complications in acute cervical spinal cord injury: a retrospective analysis
Debbie Hubbard (Bristol, United Kingdom), Clare Fitzgerald, Ema Swingwood

Laryngeal responses and airflow geometry in ALS during mechanically assisted cough
Tiina Andersen (Bergen, Norway), Brit Hov, Ove Fondenes, Hege Clemm, Thomas Halvorsen, Ola Orangeraksund, Maria Vollseter

UK survey of current cough augmentation management in patients with motor neurone disease
Rachel Szczepanski (Heres Rd, Sheffield, United Kingdom), Matthew Cox, Holly Hashmi-Greenwood

The implementation of CPAP adherence follow-up in OSAS patients: the physiotherapist’s role in an Italian hospital
Carla Simonelli (Lumezzane, BS, Italy), Mara Paneroni, Enrica Bertella, Manuela Saleri, Aubin Georges Fokom, Francesca Garofoli, Laura Bertacchini, Michele Vitacca

Physiological effects of Simeox Airway Clearance Device in healthy adults
Laurent Morin (Aix-en-Provence, France), Damien Marino, Adrien Mithalal

A pilot study investigating the PlayPhysio device and associated app
Laura Lowndes (Cambridge, United Kingdom), Colin Hamilton, Donna Meshane

Forced Oscillation Technique calculates optimum EPAP as sleep stage and body position change
Sidney Cannon-Bailey (Monroeville, United States of America), Chuck Cain, Jim Mckenzie, Michael Kissel, Bill Hardy, Parul Nisha

Pre congress content  Session 102  00:00 - 23:59
E-poster session: News on clinical evaluation of bronchiectasis, cough and inflammatory disease
### Disease(s):
- Airway diseases

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

### Chairs:
- Pieter Goeminne (Bornem, Belgium)
- Alessandro Sanduzzi Zamparelli (Napoli (NA), Italy)

### Abstracts

1. **Association between cardiorespiratory fitness and bronchiectasis: A longitudinal study**
   - Alejandro A Diaz (Arlington, United States of America), Laura Colangelo, Yuka Okajima, Andrew Yen, Marc Sala, Mark Dransfield, James Ross, Raul San Jose Estepan, George Washko, Ravi Kalhan

2. **Validation of the Korean version of the Bronchiectasis Health Questionnaire**
   - Hyunkuk Kim (Busan, Republic of Korea), Hyun Lee, Ha Young Choi, Yeon-Mok Oh

3. **Impacts of bronchiectasis in asthma patients with airflow limitation**
   - Natsuko Nomura (Kyoto, Japan), Hisako Matsumoto, Chie Morimoto, Tsuyoshi Oguma, Susumu Sato, Naoya Tanabe, Mariko Kogo, Noriyuki Tashima, Hironobu Sunadome, Toyohiro Hirai

4. **Prescription of Inhaled corticosteroid in non-cystic fibrosis bronchiectasis: a solution or a problem**
   - Soumaya Bouchareb (Ksar Hellal, Tunisia), Imen Touil, Nadia Keskes, Chaima Ben Rhouma, Ella Nemsi, Raja Romdhane, Jalel Knani, Leila Boussoffara

5. **Winter is coming - Developing a local weather score to predict chronic respiratory activity**
   - David Barber (Warrington, United Kingdom)

6. **Chronic cough in patients presenting to a tertiary cough clinic**
   - Claire Slinger (Clitheroe (Lancashire), United Kingdom), Richard Slinger, Paul Marsden, Cristina Avram

7. **Comparison of Cough Assessment by Visual and Airflow Changes in the Guinea Pig Model of Citric Acid-Induced Cough.**
   - Mary Mcelroy (Edinburgh (Edinburgh), United Kingdom), Laurence Tilley, Kirsten Maclellan, Kirsten Cormack, Louise Cowan, Angela Marsden, James Punton, Aileen Milne

8. **The anatomy of asthma-related nocturnal cough - a potential new digital biomarker**
   - Frank Rassouli (Speicher, Switzerland), Peter Tinschert, Filip Barata, Claudia Steurer-Stey, Elgar Fleisch, Milo Puhun, Tobias Kowatsch, Martin H Brutsche

9. **Prevalence of urinary incontinence in women seeking evaluation for chronic cough**
   - Peter Dicpinigaitis (New York, United States of America)

10. **The effect of Octreotide in patients with refractory Chronic Cough**
    - Alyn Hugh Morice (Cottingham, United Kingdom), Asmaa Loonat, Caroline Wright

11. **Pulmonary abnormalities in newly diagnosed rheumatoid arthritis**
    - Charlotte Hylgaard (Aabyhøj, Denmark), Jesper Blevgad, Mette Herly, Dzenan Masic, Brian Logstrup, Bjørk Khaliqui, Grazina Urbanoviciene, Frank Andersen, Christin Isaksen, Behrouz Almasi, Torkell Ellingsen

12. **Is the unclassifiable obstructive airway more similar to asthma than COPD?**
    - Debkanya Dey (Kolkata (West Bengal), India), Sayoni Sengupta, Dipanjan Saha, Sikta Mukherjee, Mintu Paul, Parthasarathi Bhattacharyya

13. **Inflammatory bowel diseases in COPD patients.**
    - Antonina Berdyugina (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valery Elykomov, Irina Belova

14. **A study of hematologic disorders in patients with chronic obstructive pulmonary disease**
    - Warritha Limsirisawat (Samutprakarn, Thailand), Pichaya Petborom, Sirapat Tulatamakit, Manaphol Kulpraneet, Suthat Rungruanghiranya, Kanokwann Preedapornpakorn

15. **Markers of T2-inflammation in patients with severe asthma and concomitant COPD**
    - Galina Sergeeva (St. Petersburg, Russian Federation), Alexander Emelyanov, Eugenia Leshenkova, Antonina Znakhurenko

16. **Predictors of exacerbations in chronic obstructive pulmonary disease - a first single-centre experience in Croatia**
    - Davorka Mursic (Zagreb, Croatia), Fran Stjepan Naranda, Ivana Milosevic, Ivona Markelic, Mateja Jankovic Makek, Ana Hecimovic, Visnja Dukic, Miroslav Samarzija, Andrea Vukic Dugac
Pre-congress content Session 103 00:00 - 23:59

E-poster session: Air pollution as a cause of respiratory disease

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

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

**Chairs:** Mulubirhan Assefa Alemayohu (Verona, Italy), Rafael E. de la Hoz (New York, United States of America)

1295 **Definition of COPD phenotype depending on eosinophil count**
Markus Polke (Heidelberg, Germany), Nilab Polke, Matthias Rötting, Vasiliki Gerovasili, Ralf Eberhardt, Felix J F Herth, Daniela Gompelmann

1296 **Alteration in the balance between type 1 and type 2 immune responses among lead exposed population**
Yehia Yasseen Zakaria (Cairo, Egypt)

1297 **Quality of life features in patients with asthma in urban and rural areas**
Natalia L. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Juliy M. Perelman

1298 **Responses in human bronchial mucosa after short-term exposure to wood smoke.**
Alva Hansson (Umeå, Sweden), Jamshid Pourazar, Maria Sehslstedt, Gregory Rankin, Robert Lindgren, Christoffer Boman, Anders Blomberg, Annelic F Behndig, Thomas Sandström, Ala Muala

1299 **Indoor air pollutants and respiratory outcomes among adult Pakistani population: A cross sectional survey**
Unaib Rabbani (Buraidah, Saudi Arabia), Shama Razzak, Peter Burney, Asaad Ahmed Naifees

1300 **Link between fine particulate matter in ambient air and health-related contacts in Sofia's ambulance, outpatient and hospital emergency services.**
Alexander Simidchiev (Sofia, Bulgaria), Carolina Ljubomirova, Alexandra Vodenicharova, Todor Kundurzhiev, Nevena Tzacheva

1301 **Exposure to PM 2.5 and PM 2.5-bound PAHs and its influence on respiratory tract function and cytokines concentrations changes in healthy adults.**
Artur Badya (Warszawa, Poland), Andrzej Chcialowski, Piotr Dąbrowiecki, Adam Stańczyk, Piotr Oskar Czechowski

1302 **Pulmonary effects of volcanic air pollution**
Melissa Silva-Medina Weil (Cali, Colombia), Mauricio Palacios, Vicente Benavides

1303 **Upper respiratory symptoms in children (3-12 years old) exposed on different levels of ambient particulate matter.**
Artur Badya (Warszawa, Poland), Wojciech Feleszko, Aleksandra Ratajczak, Piotr Oskar Czechowski, Adam Czarnecki, Michal Dubrawski, Anna Dąbrowska

1304 **The infiltration of inflammatory cells in the apparently normal bronchial mucosa in anthracotic patients after discontinuation of exposure to fossil fuel: a prospective study**
Mohammad Samet (Yazd, Islamic Republic of Iran), Fariba Binesh, Sanaz Zand

1305 **Association between air pollution levels and the number of Emergency Department visits for asthma exacerbations**
Ana Gómez García (Valladolid, Spain), Tomás Ruiz Albi, Raúl López Izquierdo, Ana Cerezo Hernández, Daniel Alvarez González, Fernando Moreno Tornero, Andrea Crespo Sedano, Jose Ignacio Santos Plaza, Félix Del Campo Matias

1306 **Image registration based QCT characterization of the lungs of biomass cooks**

1307 **COPD exacerbations are related to poor air quality in Innsbruck**
Anna Boehm (Innsbruck, Austria), Alex Pizzini, Thomas Sonnewber, Magdalena Aichner, Sabina Sahanic, Ivan Tancevski, Michael Joannidis, Guenter Weiss, Judith Loeffler-Ragg

1308 **Exposure biomarkers in a pig model of chlorine inhalation injury**
Sven-Eric Jordt (Durham, NC, United States of America), Carolyn J. Albert, Kevin A. Schultz, David A. Ford, Rakesh Patel, Satyanarayana Achanta

1309 **Annoyance from winter atmospheric pollution created from wood burning for heating**
Efthimios Zervas (Patra, Greece), Efi Drimili, Zoe Gareiou

1310 **RURAL AND URBAN ASTHMA: ARE THEY DIFFERENT?**
Christian Eduardo Romero Mesones (Barcelona, Spain), Galo David Granados Rosales, María Jesús Cruz Carmona, Iñigo Ojanguren Arranz, Miquel De Homdedeu Cortes, Silvia Sánchez Diez, Donghai Ma, Xavier Muñoz Gall
Association between long standing heavy traffic exposure and respiratory symptoms and airway inflammation in older adults and elderly
Regiani Carvalho Oliveira (São Paulo (SP), Brazil), Luis Fernando Amato-Lourengo, Pamela Souza Almeida, Bianca B.M. Garcia, Willian K.M. Vieira, Martha Cristina Motta Godinho-Netto, Maria E. Carretero, Thais Mauad, Paulo H. Nascimento Saldiva

Pre-congress content Session 104 00:00 - 23:59

E-poster session: Smoking disease landscape: from inflammation to lung function and comorbidities

Disease(s): Sleep and breathing disorders Airway diseases
Method(s): Public health Epidemiology General respiratory patient care Pulmonary function testing Imaging Cell and molecular biology Physiology Pulmonary rehabilitation

Chairs: Athanasia Pataka (Thessaloniki, Greece), Mateusz Jankowski (Warsaw, Poland)

1312 Effects of smoking cessation on spirometry in mild to moderate COPD
Sourav Datta (Hooghly, India), Susmita Kundu, Falguni Mandi

1313 Does Smoking Cessation affect symptoms and FEV1 in smokers with mild COPD?
Anna Khomenya (Omsk, Russian Federation), Maria Vershinina, Olga Foronosova

1314 The impact of smoking habits and secondhand smoke exposure on smoking biomarkers
Raquel Barros (Lisboa, Portugal), Ana Sofia Oliveira, Cristina Bábara

1315 Load characteristics and inhalation risk assessment of benzene series (BTEX) pollutant in indoor air of Water pipe and cigarette compared to smoke free cafés
Gholamreza Heydari (Tehran, Islamic Republic of Iran)

1316 Gender characteristics of smokers with COPD.
Elizaveta Volechkova (St. Petersburg, Russian Federation), Olga Sukhovskaya, Olga Titova, Valery Kulikov, Marya Smirnova

1317 The prevalence of respiratory symptoms and smoking among young people in Moscow
Maryana Tubekova (Moscow, Russian Federation), Tatiana Bilichenko, Maryana Tubekova

1318 Clinical, Functional and Radiological Findings in Smokers with Mild COPD: what lies behind FEV1/FVC Ratio less than 70%
Maria Vershinina (Omsk, Russian Federation), Anna Khomenya, Olga Foronosova

1319 β-Escin and chokeberry extract diet supplementation in healthy smokers as potential anti-inflammatory and antioxidant protection - a pilot study.
Małwina Soltysiak (Warszawa, Poland), Magdalena Paplińska-Goryca, Katarzyna Koziak, Rafał Krenke

1320 Are there any changes in the lung age after the end of the tobacco habit?
Maria Betran Orduna (Zaragoza, Spain), Maria Fernando Moreno, Marta Miranda Hernandez, Teresa Lanzuela Benedicto, Marta Martin Lana, Guillermo Samuel Loscertales Vacas, Virginia Moya Alvarez, Jesus Guzman Aguilar

1321 The impact of tobacco smoking on increased body weight in the residents of the Yamal Nenets Autonomous Okrug, Russia
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Elena Bogdanova, Andrei Lobanov, Ruslan Kochkin

1322 Relation Between Respiratory Function, Tobacco Consumption, Exercise Habits, and Sleep Quality in Healthy Young Adult Men
Merve Dinç (İstanbul, Turkey), Kübra Nur Menengiç

1323 Smoking habits in high cardiovascular risk patients
Stefan A. Mihaicuta (Timişoara (Timis), Romania), Roxana Maria Pleava, Stefan Frent, Carmen Ardelean, Svetlana Mosteoro, Dan Gaita

1324 Smoking and oxidative stress markers useful for improving anxiety and depression disease outcomes
Letitia Trofor (Iasi (Iasi), Romania), Ioana Buculei, Ionela-Alina Grosu-Creanga, Mona Elisabeta Cioroiu, Antigona Trofor

1325 Systemic inflammation in COPD in relation to smoking status
Touil Imen (Mahdia, Tunisia), Touil Imen, Keskes Boudawara Nadia, Baccari Mohamed Amine, Nemsi Elaa, Romdhani Raja, Ben Rhouma Chaima, Knani Jalel, Boussofara Leila
Exposure of Drosophila melanogaster to cigarette smoke extract changes its sexual behavior.
Sotirios Zarogiannis (Larisa, Greece), Athanasios-Stefanos Giannopoulos, Lydia Giannakou, Natalia Gourgouliani, Stefan Lüpold, Erasmia Rouka, Rajesh Jagirdar, Eleanna Pitaraki, Chrissi Hatzoglou, Konstantinos Gourgoulianis, Wolf Blanckenhorn

Epidemiology, risk factors, and clinical parameters of non-smoker COPD patients.
ANUJ KUMAR PANDEY (Lucknow, India), Ajay Kumar Verma, Surya Kant, Rakesh Kumar Dixit, Arpita Singh, Umesh Pratap Singh, Ved Prakash, Shyam Chand Chaudhary

Sleep disturbances as a predictor of smoking cessation
Shadi Amid Hägg (Uppsala, Sweden), Mirjam Ljunggren, Christer Janson, Eva Lindberg

Smoking in Obstructive Sleep Apnea Syndrome: gender differences
Athanasia Pataka (Thessaloniki, Greece), George Kalamaras, Seraphim Kotoulas, Evaggelos Chatzopoulos, Ioanna Grigoriou, Nikolaos Chavouzis, Despoina Ioannidou, Katalin Fekete, Paraskevi Argyropoulou

Smoking and alcohol consumption during pregnancy. The situation in Greece
Paraskevi Katsaounou (Athens, Greece), Athina Diamanti, Katerina Lykeridou, Vasiliou Raftopoulos

Pre-congress content Session 105 00:00 - 23:59

E-poster session: Pathophysiology and treatment of obstructive sleep apnoea

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

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

Chairs: Manuel Sanchez De La Torre (Lleida, Spain), Oana Claudia Deleanu (Bucharest, Romania)

Inhibition of miR-34a protects human umbilical vein endothelial cells against intermittent hypoxia-induced endothelial injury by targeting ATG7
Qingshi Chen (Quanzhou, China), Guofu Lin, Hai Lin, Qichang Lin

Inhibition of LncRNA MALAT1 Protects H9c2 Cells against Intermittent Hypoxia-Induced Injury by Targeting MiRNA-193a-3p
Qingshi Chen (Quanzhou, China), Guofu Lin, Hai Lin, Qichang Lin

The role of complement factor H and clusterin in obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Martina Meszaros, Peter Horvath, Zsofia Lazar, David Tarnoki, Adam Tarnoki, Adrian Kis, Laszlo Knapos

The role of hyaluronan metabolism in obstructive sleep apnoea
Martina Meszaros (Budapest, Hungary), Zsofia Lazar, Adam Domonkos Tarnoki, David Laszlo Tarnoki, Adrian Kis, Laszlo Knapos, Andras Bikov

Peculiarities of GABA levels in plasma and urine of asthma patients with obstructive sleep apnea
Elizaveta Sheludko (Blagoveshchensk (Amur Oblast), Russian Federation), Denis Naumov, Dina Gassan, Olesya Kotova, Juliy Perelman

IFN? involvement in adipogenesis of OSA patients
Yan Wang (, China), Xiaolei Zhang

Association of obstructive sleep apnea hypopnea syndrome with cardiovascular disease: a candidate gene association study
Dimitrios Raptis (Larissa, Greece), Foteini Malli, Georgia Rapti, Dimitra Siachpazidou, Chrysoula Marogianni, Zoe Daniil, Ilias Dimeas, Gregory Giamouzis, Chaido Pastaka, Georgia Xiromerisiou, Konstantinos I. Gourgoulianis

Socioeconomic factors and adherence to Continuous Positive Airway Pressure - a population-based cohort study
Andreas Palm (Gavle, Sweden), Ludger Grote, Mirjam Ljunggren, Josefin Sundh, Jenny Theorell_haglöw, Magnus Ekström

CPAP and me: what's wrong?
Paolo Righini (Torino (TO), Italy), Valter Gallo, Giovann Maria Ferrari, Diletta Favero, Alessandro Oliva, Sonia Bassini, Roberto Prota

CPAP usage patterns in OSA patients with suboptimal adherence
Matteo Bradicich (Basel, Switzerland), Fabian Alexander Grewe, Thomas Gaisl, Maurice Roeder, Sira Thiel, Noriane Andrina Sievi, Malcolm Kohler

Adherence predictors to positive airway pressure (PAP) treatment in patients with obstructive sleep apnea (OSA).
Ana Daniela Lopes (Porto (Porto), Portugal), Nuno Cortesão, Iola Pinto, Margarida Dias, Isabel Teixeira
Abandon of the arousal index for continuous positive airway pressure prescription and refund decreases short-term adherence to the treatment
Giuseppe Liistro (Bruxelles, Belgium), Augustin Dermine

Adherence to Continuous Positive Airways Pressure (CPAP) in mild obstructive sleep apnoea (OSA)
Shirley Coelho (Viana do Castelo, Portugal), Richard Glover, Maximilian Thomas, Yasmine Khan, Deyashini Mukherjee, Alain Al Helou, Mindi Daniels, Simon Wharton, Rahul Mukherjee

Tele-monitoring system implementation in continuous positive airway pressure therapy in Asian obstructive sleep apnea
Worawat Chumpangern (Bangkok, Thailand), Naricha Chirakalwasan

Impact in adherence to CPAP treatment of a specific consultation for patients with severe obstructive sleep apnoea
Jesus Lancha Dominguez (Huelva, Spain), Maria Morón Ortiz, Roberto Del Pozo Rivas, Byron Enrique Urizar Catalán, Jessica Ivana Hilares Vera

FOLLOW-UP OF OBSTRUCTIVE SLEEP APNEA TREATMENT: DIFFICULTIES FACED BY PRIMARY CARE UNITS
Alexandre Manuel Carvalho da Silva Almendra (Braga, Portugal), Cátia Pereira, João Carvalho, Paula Pinto, Cristina Bárbara

COMPLIANCE OF A NEW VIBRATIL DEVICE IN PATIENTS WITH POSTURAL SLEEP APNEA. Data not show.
Laura Hidalgo Armas (Santurdejo, Spain), José Cordero-Guevara, Joaquin Durán-Cantolla

Outcome of Mandibular Advancement Device (MAD) referrals following a clinician led dental assessment in patients with Obstructive Sleep Apnoea Syndrome (OSAS)
Akshay Dwarkanath (Wakefield (West Yorkshire), United Kingdom), Amanda Witton, Lesley Earnshaw, Angela Upson, Corraine Ledgway, Mohammad Khan, Anthony Johnson

Is Virtual Autonomous Physiotherapist Tele-rehabilitation Program in Chronic Obstructive Pulmonary Disease equal to Hospital-Based Pulmonary Rehabilitation?
Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Ole Hilberg, Anders Løkke, Elisabeth Bendstrup

Feasibility of an asthma app to monitor medication adherence
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rute Almeida, Ria Amaral, Ana Margarida Pereira, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Dario Antolin-Américal, Belén De La Hoz Caballer, Alicia Barra Castro, David Gonzalez-De-Olano, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Ana Arbohas, Margarida Valério, João Cardoso, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Joana Carvalho, Ana Mendes, Carlos Lozoya, Natacha Santos, Fernando Menezes, Ricardo Gomes, Rita Cámara, Rodrigo Rodrigues Alves, Ana Sofia Moreira, Ana Bordalo, Carlos Alves, Didina Coelho, José Alberto Ferreira, Cristina Lopes, Diana Silva, Maria Joao Vasconcelos, Maria Fernanda Teixeira, Luis Taborda-Barata, Maria José Cálix, Adelaide Alves, João Almeida Fonseca

Application of text analytics for identification of respiratory diseases in medical claims
Kameshwar Rao P (Pune, India), Nagesh Dhadge, Pinaki Sengupta, Uday Kelkar

What features do patients and clinicians ‘want’ in the future Internet-Of-Things (IoT) systems for asthma: a mixed method study
Chi Yan Hui (Edinburgh (Edinburgh), United Kingdom), Brian Mckinstry, Olivia Fulton, Mark Buchner, Hilary Pinnock

Self-administration of biologics for severe asthma - development of an app - a qualitative study
Kristina Kock Hansen (Vejle, Denmark), Louise Ulrich, Celeste Porsbjerg, Anders Christiansen, Ole Hilberg
Wearable electrical impedance tomography for chest monitoring
Inez Frerichs (Kiel, Germany), Barbara Vogt, Josias Wacker, Rita Paradiso, Fabian Braun, Michael Rapin, Laura Caldani, Olivier Chételat, Norbert Weiler

A Patient Feedback Driven, Stacked Machine-Learning Approach to At-Home COPD Triage
Sumanth Swaminathan (New York, United States of America), James Morrill, Klajdi Qirko, Ted Smith, Nicholas Wysham, Botros Toro

Impact of smart digital therapy feedback, motivation and assistance on CPAP adherence: a randomized-controlled trial
Anne Gruenewald (, Germany), Ulrich Brandenburg, Ruediger Alshut, Matthias Schwaibold, Regina Schaefer, Alexander Grimm, Christian Franke

Clinical feasibility study utilizing multi-sensor devices with the goal of developing remote monitoring digital health solutions for patients with asthma or COPD
Pankaj Goyal (Basel, Switzerland), Francesc Calvo, Mojdeh Maboudian, Tianmeng Lyu, Mike Rinderknecht, Bjoern Holzhauer, Greg Plante, Brian Kelly, Gerald Bacher

Do technologies make a difference in adherence to treatment: instant messaging application use?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov, Maria Shostatska

Blended care results in an improved adherence of an eHealth Platform by COPD patients
Cathelijne van Zelst (Rotterdam, Netherlands), Esther Van Noort, Niels Chavannes, Hans In ’t Veen, Marise Kasteleyn

A digital inhaler uncovering patterns of SABA use in asthma and COPD
Mark L. Levy (London, United Kingdom), Henry Chrystyn, Guilherme Saffioti, Michael Depietro, Randall Brown, Tanisha Hill, Lena Granovsky, Michael Reich, Sinthia Bosnic-Anticevich

Mobile games increases knowledge, attitude and positive behaviors of the children with respiratory disorders and their families.
Kazi Raiyan Mahmud (, Bangladesh), Kazi Faisal Mahmud, Fatema Zannat, Mostafizur Rahman, Fatema Rafat, Kazi Faiyad Mahmud, Kazi Fahim Mahmud, Rumana Afroze, Nishat Jahan

Real-time monitored patient adherence to an eHealth self-management intervention in patients with COPD and heart failure
Joanne M. Sloots (Eindhoven, Netherlands), Job Van Der Palen, Mirthe Bakker, Michiel Eijsvogel, Gerard Linssen, Paul Van Der Valk, Clara Van Ommeren, Monique Tabak, Tanja Effing, Anke Lenerfink

An electronic alert to reduce excessive prescribing of short-acting beta2-agonists for people with asthma in East London: a retrospective case-control study using routine primary care data
Shauna McKibben (London, United Kingdom), Andy Bush, Mike Thomas , Chris Griffiths

RECEIVER trial: positive early experience and sustained patient engagement with a digital service model for COPD management
Anna Taylor (Glasgow, United Kingdom), Anna Taylor, Rebecca Scott, Grace Mcdowell, Paul Meginness, David Lowe, Chris Carlin

Use of online questionnaires, social networks and messengers for quick collecting epidemiological data among young people.
Anna V Demchuk (Vinnytsia, Ukraine), Illia Glivenko, Olha Yaroslavska, Vitalii Poberezhets, Yuriy Mostovoy

COPD patient tele-monitoring using interactive questionnaires and electronic patient record
Vitaly Mishlanov (Perm, Russian Federation), Ksenia Bekker, Anastasia Katkova

Pre-congress content Session 107 00:00 - 23:59
E-poster session: Epidemiology of tobacco use and the role of health professionals in tobacco control

Disease(s): Airway diseases
Method(s): Public health Epidemiology General respiratory patient care
Chairs: Aslı Görek Dilektal 1 (Bursa, Turkey), Constantine Vardavas (Heraklion, Greece)

Evaluation of Smoking and Other Tobacco Product Habits of Ege University Faculty of Health Sciences Students: A cross-sectional Survey Study
Alev Gürgün (Bornova - Izmir, Turkey), Funda Elmas Uysal, Hur Hassoy, Zafer Gündük, Nazmiye Civay, Isil Ergin, Gunay Anacak, Nurcan Buduneli, Murat Urhan, Volkan Karadağ, Batuhan Ata
Characteristics of hookah smokers according to their dual tobacco products 'cigarettes' use
Dilek Karadoğan (Rize, Turkey), Yağıcı Kaanbay, Özgür Onal, Deniz Say Şahin

Patterns of tobacco use among Spanish secondary school students
Natalia Pascual Martínez (Cordoba, Spain), Silvia Martín Bote, María Melgar Herrero, Cristina Gómez Rebollo, Cristina Villalba Moral, Rafael Castro Jiménez

Factors and concepts associated with the start of cigarette smoking in university students
Giovanni García Castro (Pereira, Colombia), Angela Maria Giraldo Montoya

Use of digital technologies for evaluating prevalence of various types of nicotine usage among young people
Viktoria Davydova (Vinnytsia, Ukraine), Tetyana Shypovychna, Anna Demchuk, Vitalii Poberezhets, Yuriy Mostovoy

Prevalence of electronic-cigarette smoking in Thai college student
Chathutnai Savigamin (Bangkok, Thailand), Jetsadakorn Jitwimungsan, Thanapoom Rattananupong, Chanchai Sittipunt, Thitiwat Sriprasart

Electronic cigarette (ecig) and university students. Prevalence, beliefs and use characteristics.
Santiago Antonio Juarros Martinez (Simancas, Spain), Beatriz Villasecusa González, Maria Isabel Muñoz Diez, Belen Muñoz Díaz, Eva Maria Rueda Dominguez, Milagros Del Olmo Chiches, María José Chourio Estaba, Lourdes Del Rio Sola

Relationship between cigarette advertising exposure, harmful tobacco knowledge and smoking status of the sixth grade elementary school students in Bandar Lampang, Indonesia.
Reto Aniza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Marisa Anggraini, Hetti Rusmini, Fransiska Sinaga, Siti Alya L.C, Siti Alya L.C, Mokoagow

Continuous effect of migrant crisis on smoking status among migrants
Deska T. Dimitrievska (Skopje, North Macedonia), Monika Tushevska Mitkovska, Marija Zdraveska, Nikola Chamurovski, Ana Lazarevska

Prevalence of tobacco use and its determinants among adults ≥ 18 years in an urban slum of Lahore, Pakistan: WHO STEPS survey
Shama Razzaq (Karachi, Pakistan), Unsa Athar, Tahseen Kazmi

Evaluation of smoking habits of parents of patients with chronic lung and respiratory tract diseases
Setenay Akyuzluer Gunes (Ankara, Turkey), Gizem Ozcan, Fazilcan Zirek, Nazan Cobanoglu

Vaping: more than smoke and mirrors?
Nitika Kaushal (Bexleyheath (Kent), United Kingdom), Burhan Khan

Characteristics of prevalence and motivation for smoking among schoolchildren of the Altai region.
Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Valeriy Elykonov

Survey on smoking among students of the medical school of medicine & pharmacy in Agadir-Morocco
Hind Serhane (Marrakech, Morocco), Fatiha Bounoua, Khadija Aitnasser, Houda Moubachir

Investigation of nicotine delivery devices usage among adults in Ukraine
Sergii Zaikov (Kyiv, Ukraine), Artemii Bogomolov, Sergii Zaikov

Smoking and use of electronic cigarettes by healthcare workers in Tunisia
Nesrine Fahem (Monastir (Gouvernorat de Monastir), Tunisia), Lobna Loued, Ahmed Ben Saad, Asma Migaou, Saoussen Cheikhmhamed, Maroua Ammar, Safa Ben Khaled, Jihen Ayeb, Rim Bouguezzi, Hiba Mosbeh, Mohamed Aouina, Samah Jobeour, Naceur Rouatbi

Frequency and attitudes towards heated Tobacco Products among medical students - preliminary results.
Paulina Majek (Katowice, Poland), Grzegorz Brożek, Mateusz Jankowski, Bartłomiej Nowak, Maciej Nowak, Piotr Nakiela, Andrzej Swinarski, Jan Eugeniusz Zejda

Exposure to E-cigarettes advertisement and product use in Russian population: results from Russian Tobacco Control Policy evaluation survey
Marine Gambaryan (Moscow, Russian Federation), Anna Kalinina, Marina Popovich, Michail Startovoletov, Oxana Drapkina

Cigarette smoking and the female gender: What has changed in 10 years?
Ana Luisa Ramos Costa e Silva (Lisboa, Portugal), Margarida V. Matias, Ana Margarida Mestre, Joana Carvalho, Ana Filipa Santos, Cristina Matos, Fernando Nogueira

Pre-congress content Session 108 00:00 - 23:59
E-poster session: Risk factors for chronic lung diseases
**Disease(s):** Airway diseases, Respiratory critical care, Sleep and breathing disorders

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

**Chairs:** Mulubirhan Assefa Alemayohu (Verona, Italy), Chair to be confirmed

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**1387**

The increase of allergic sensitization in school children in Northern Sweden has leveled

Eva Rönmark (Luleå, Sweden), Joakim Bunne, Anders Bjerg, Martin Andersson, Rebecca Johansson, Bo Lundbäck, Linnea Hedman

**1388**

Emphysema is associated with increased risk of desaturation in 6 min walk test in COPD patients

Marie Johanne Waatevik (Bergen, Norway), Bente Frisk, Francisco Real, Jon Hardie, Per Bakke, Tomas Eagan, Ane Johannessen

**1389**

Effects of short-term exposure to Particulate Matter on Emergency Department admissions for Asthma Exacerbation

Laura Pini (Brescia (BS), Italy), Jordan Franz Giordani, Carlo Concoreggi, Elena Zanardini, Alessandro Pini, Pietro Piervanelli, Guido Levi, Leonardo Pedroni, Manuela Ciarfaglia, Claudio Tantucci

**1390**

Painting, ETS and building age as related to incidence of respiratory symptoms

Juan Wang, Christer Janson, Rain Jogi, Bertil Forsberg, Thorarinn Gislason, Mathias Holm, Andrei Malinovschi, Vivi Schlünsens, Cecilie Svanes, Karl Franklin, Dan Norbäck

**1391**

Exercise-induced airway symptoms in young athletes; a follow-up from first to third year in sports high school

Karim Ersson (Uppsala, Sweden), Henrik Johansson, Elisabet Mallmin, Leif Nördang, Andrei Malinovschi

**1392**

Asthma with and without rhinitis and eczema in adults: prevalence, sensitization profile, and risk factors

Teet Pullerits (Göteborg, Sweden), Erik P Römark, Linda Ekerljung, Helena Backman, Hannu Kankaanranta, Madeleine Rådinger, Bo Lundbäck, Bright Nwaru

**1393**

A mendelian randomization study of BMI and asthma exacerbations in children

Cristina Longo (Amsterdam, Netherlands), Susanne Vijverberg, Anke H. Maitland-Van Der Zee

**1394**

Influence of agricultural and grey spaces proximity on allergic rhinitis, asthma and COPD: a population-based study

Sandra Baldacci (Pisa (PI), Italy), Sara Mai, Anna Angino, Eija Parmes, Juha Pärkkä, Giancarlo Pesce, Cara Nichole Maesano, Isabella Annesi-Maesano, Giovanni Viegi

**1395**

Underdiagnosis and miscategorisation of COPD in Sweden

Malin Axelsson (Malmö, Sweden), Helena Backman, Lowie Vanfleteren, Caroline Stridsman, Linda Ekerljung, Berne Eriksson, Bright Nwaru, Eva Rönmark, Hannu Kankaanranta, Anne Lindberg, Bo Lundbäck

**1396**

Clinical outcome of adult onset asthma in a 15 year follow-up

Linnea Almqvist (Boden, Sweden), Helena Backman, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Linnea Hedman

**1397**

Natural history of disease burden for US patients with asthma vs asthma and COPD

Eugene R. Bleecker (Winston-Salem, United States of America), Kevin Murphy, Hitesh N. Gandhi, Ileen Gilbert, Joseph Zein, Joan Reibman, Geoffrey Chupp

**1398**

Challenges in defining early COPD in the general population: Findings from the Copenhagen General Population Study

Yunus Çolak (Herlev, Denmark), Shoiba Afzal, Børge G. Nordestgaard, Peter Lange, Jørgen Vestbo

**1399**

Asthma in adults: association of asthma symptoms and age at asthma diagnosis

Hanna Hisinger-Mölkänen (Tuusula, Finland), Jasmin Honkanäki, Hannu Kankaanranta, Leena E Tuomisto, Anssi Sovijärvi, Eva Rönmark, Bo Lundbäck, Helena Backman, Heidi Andersen, Ari Lindqvist, Lauri Lehtimäki, Paula Pallasaho, Pinja Ilmarinen, Päivi Piirilä

**1400**

Life-years lost due to asthma and COPD

Sven-Arne Jansson (Umeå, Sweden), Linnea Hedman, Caroline Stridsman, Malin Axelsson, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Helena Backman

**1401**

LOW LUNG FUNCTION AT EARLY ADULTHOOD DOESN’T CHANGE DURING FOLLOW-UP. Results from Lung Development Cohort - University of Granada

Pedro José Romero Palacios (PELIGROS, Spain), Oliverio Ruiz Rodriguez, Juan Antonio Holgado Terriza, Bernardino Alcazar Navarrete

**1402**

Association between birth weight and lung function in middle age

Melvin Tandra (Melbourne, Australia), Michael Abramson, Adrian Lowe, Haydn Walters, Paul Thomas, Gayan Bowatte, Jenny Perret, Shyamali Dharmage, Dinh Bui
**Session 109**

**E-poster session: Clinical and laboratory pharmacology in asthma**

**Disease(s):** General respiratory patient care, Pulmonary function testing, Cell and molecular biology, Physiology, Epidemiology, Public health

**Method(s):**
- General respiratory patient care
- Pulmonary function testing
- Cell and molecular biology
- Physiology
- Epidemiology
- Public health

**Chairs:** Salman Siddiqui (Leicester, United Kingdom)

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**1403**

**Association between airflow limitation severity and comorbidities in Japanese men**

Hisamitsu Omori (Kumamoto, Japan), Ayumi Onoue, Yoshiaki Shinonome, Kazuhiko Watanabe, Kenichi Kubota, Toshinari Hayashi, Tohru Tsuda

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**1404**

**Late Breaking Abstract - Cardi-o-selective beta1-blockers in asthma: a search of the World Health Organization Global Database of Individual Case Safety reports (VigiBase)**

Miriam Bennett (manchester, United Kingdom), Catherina Chang, Michael Tatley, Ruth Savage, Robert Hancock

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**1405**

**Oral corticosteroid prescription in asthma: Swiss situation**

Claudio Schuoler (Zug, Switzerland), Jörg D. Leuppi, Thomas Rothe, Anja Jochmann, Christian Clarenbach, Claudia Steurer-Stey, Florian Charbonnier, Hans-Werner Duchna, Pierre-Olivier Brideaux, Vitaly Chicherov, Maria Korobynikova, Stefan Wetzel, Caroline Leuenberger, Gunther Pendl

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**1406**

**Icaritin inhibited ovalbumin-induced airway inflammation in murine model**

Dong Yao (Guilin, China), Bo Xiao, Guiming Zhou, Biwen Mo

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**1407**

**Reslizumab: Effectiveness one month after first dose.**

Ignacio Lobato Astiarraga (Valladolid (CL), Spain), Marco López Zubizarreta, Ana Andrés Porras, Jenifer Marcos Sierra, José Andrés Tenes Mayen, Rosa Pajares Mediavilla, Jose Ángel Tapias Del Pozo, Jesús Hernández Hernández

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**1408**

**Assessment of biological therapy in asthma-obesity phenotype**

Evgenia Makarova (Chelyabinsk, Russian Federation), Galina Ignatova

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**1409**

**Diagnosis and therapy of asthma bronchiale in top athletes**

Eva Seres (Budapest, Hungary), Nora Sydo, Gabor Horvath, Timea Kovats, Orsolya Kiss, Bela Morkely, Veronika Muller

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**1410**

**Budesonide/formoterol efficacy in “obese” asthma.**

Kostiantyn Dmytryev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov

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**1411**

**Effect of combined inhaled corticosteroid-formoterol therapy on short-acting beta2-agonist use in Poland: a retrospective analysis of pharmacy reports**

Rafał Dobek (Warsaw, Poland), Wojciech Barg, Grażyna Bochenek, Grzegorz Brożek, Dorota Brzostek, Piotr Dańkowiecki, Andrzej Dańkowski, Radosław Gawlik, Aleksandra Kucharczyk, Izabela Kuprys-Lipińska, Agnieszka Mastalerz-Migas, Edyta Zagajetz, Marek I. Kowalski

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**1412**

**Airway autoimmunity and response to a 14-day course of oral corticosteroids in patients with severe eosinophilic asthma**

Alexander Silberbrandt (Hellerup, Denmark), Manali Mukherjee, Morten Hvidfeldt, Laurits Frøssing, Parameswaran Nair, Celeste Porsbjerg

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**1413**

**B2-adrenoceptor (B2-AR) dysfunction in airway smooth muscle in severe asthma: possible role of inflammatory cytokines**

Jameel Hakeem (Leicester, United Kingdom), Latifa Chachi, Fahad Alhadian, Michael Biddle, Omar Tliba, Peter Bradding, Yassine Amrani

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**1414**

**Follow-up of patients with severe eosinophilic asthma receiving mepolizumab for one year in specialized asthma clinics in Greece.**

Maria Kallieri (Aspropyrgos, Greece), Eleftherios Zervas, Konstantinos Katsoulis, Evangelia Fouka, Konstantinos Porpodis, Konstantinos Samitas, Andriana Papaoiannou, Maria Kipourou, Panagiotis Lyberopoulos, Eleni Gaki, Stylianos Vittorakis, Miltiadis Markatos, Katerina Dimakou, Sevasti Ampelioti, Sofia Koukidou, Michail Makris, Maria Nkoula, Marija Hadji Mitrova, Spyridon Papiris, Nikolaos Tzankis, Despina Papakosta, Petros Bakakos, Stylianos Loukides

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**1415**

**High intensity interval training control inflammation in a lung allergic model.**


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**1416**

**Indacaterol/mometasone furoate combination: synergism in human hyperresponsive airway smooth muscle**

Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ivan Nikolaev, Mario Cazzola, Maria Gabriella Matera, Paola Rogliani
Broncho-alveolar lavage procedure extract compounds from surrounding tissue
Erica Bäckström (Mölndal, Sweden), Britt-Marie Fihn, Teodor Erngren, Walter Lindberg, Lina Odqvist, Markus Fridén, Ken Grime

The effects of PGD2 and DK-PGD2 on features of airway remodeling in human airway epithelial cells and guinea pig lung slices
Siti Farah Rahmawati (Groningen, Netherlands), Vassiliki Verschut, Manon Woest, Huib Kerstjens, David Sandham, Reinoud Gosens, Loes Kistemaker

Progesterone-induced blocking factor as a potential therapeutic target for elderly women with asthma
Hyun Jae Shim (Seoul, Republic of Korea), Ji-Hyang Lee, Min Ju Pyo, Keun-Ai Moon, Sin-Jeong Kim, Jun-Pyo Choi, Hyouk-Soo Kwon, You Sook Cho

GB001 is a potent, insurmountable DP2 antagonist with long receptor residence time and extended pharmacodynamic effects
Sunil Sahdeo (San Diego, United States of America), Kristen Taylor Meadows, Sam Hoare, Terry Kenakin, Susan Murphy, Tomas Salter-Cid, Hector Ortega, Gregory Opiteck, Luisa Salter-Cid, Laura Carter

GB001, a selective prostaglandin D2 receptor 2 antagonist, blocks signaling in the peripheral blood of healthy subjects
Gregory Opiteck (San Diego, United States of America), Kristen Taylor Meadows, Eric Butz, Scott Sugden, Richard Aranda, Hector Ortega

Pre-congress content
Session 110 00:00 - 23:59

E-poster session: Comorbidities/multimorbidities and mortality in patients with chronic lung diseases

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

Method(s): Epidemiology, Pulmonary function testing, Public health, Imaging, General respiratory patient care, Physiology, Surgery

Chairs: Joan B Soriano (Madrid, Spain), Maxime Patout (Mont-Saint Aignan, France)

Predictors of mortality and exacerbations across 34 years among adults with asthma - TRAIL Cohort
Oliver Djurhuus Tupper (Søborg, Denmark), Charlotte Suppli Ulrik

Respiratory symptoms as risk factors for mortality - the Nordic EpiLung Study
Helena Backman (Lulea, Sweden), Laxmi Bhatta, Linnea Hedman, Ben Brumpton, Jida Vähätalo, Paul G Lassman-Klee, Bright Nwaru, Xiao-Mei Mai, Sigrid Anna Vikjord, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Arnulf Langhammer

Implications of different CT emphysema thresholds on COPD phenotypes
Christina Due Svendsen (Bergen, Norway), Kris Ostridge, Rune Nielsen, Eli Nordeide, Terje Larsen, Karel Kj Kuiper, Tomas Mikal Eagan

Risk factors for low forced vital capacity in the multinational BOLD study: An update
Andre F.S. Amaral (London, United Kingdom), Jaymini Patel, A. Sonia Buist, Peter Burney, On Behalf Of The Bold Collaborative Research Group

Geo-economic variations in intraoperative ventilation management - insights from a worldwide prospective cohort study
Liselotte Hol (Haarlem, Netherlands), Sabrine Hemmes, Ary Serpa Neto, Marcus Schultz

Incidence of osteoporosis and fragility fractures in asthma: a population-based matched cohort study
Christos Chalitsios (Nottingham, United Kingdom), Dominick Shaw, Tricia Mckeever

Association between obstructive syndrome and mental disorder - The PneuMol aus|PsyCoLaus study
Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod

Role and impact of chronic cough in obese individuals from the general population
Eskild Landt (Koege, Denmark), Yunus Çolak, Boerge G Nordestgaard, Peter Lange, Morten Dahl

Women receiving hormone replacement therapy are at high risk of developing asthma
Erik Sören Halvard Hansen (Valby, Denmark), Kristian Aasbjerg, Amanda Lykkemark Møller, Elisabeth Gade, Christian Torp-Pedersen, Vibeke Backer
Impact of abnormal body water distribution on prognostic of Chronic Obstructive Pulmonary Disease and heart failure patients.
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arturo Orea Tejeda, Dulce González Islas, María Elena Quintero Martínez, Valeria Ariadna Martínez Vázquez, Ilse Del Carmen Pérez García, Yael Ramiro Gastelum Ayala, Oscar Martínez Reyna, Nathalie Martínez Luna, Leslie Verdeja Vendrell, Rocio Sánchez Santillan, Viridiana Peláez Hernández

Multimorbidity in Finnish and Swedish speaking Finns - association with daily habits and socioeconomic status - A Nordic EpiLung study
Heidi Andersén (Vaasa, Finland), Hannu Kankaanranta, Leena E Tuomisto, Päivi Piirilä, Anssi Sovijärvi, Arnulf Langhammer, Helena Backman, Eva Rönmark, Bo Lundbäck, Lauri Lehtimäki, Pinja Ilmarinen

Early life origins of lung ageing: A study of lung function decline the ECRHS and NFBC1966 cohorts
Cecilie Svanes (Bergen, Norway), Jorunn Kirkeleit, Trond Riese, Matthias Wielserhe, Julia Dratva, Simone Accordini, Anne-Elie Carsin, Angelo Guido Corsico, Karl Franklin, Matthias Holm, Christer Janson, Benedicte Leynaert, Caroline Lodge, Chantal Raherison, Francisco Gomez Real, Vivi Schlunssen, Judith Garcia-Aymerich, Shymali Dharmage, Debbie Jarvis, Marjo-Riita Jarvelin

Long-term use of inhaled corticosteroids and the risk of type 2 diabetes in COPD
Mohamad Isam Saeed (Copenhagen C, Denmark), Josefín Eklöf, Imane Achir, Pradeesh Sivapalan, Howraman Meteran, Anders Lokke, Tor-Biering Sørensen, Filip Krag Knop, Jens-Ulrik Stæhr Jensen

COPD phenotypes and 5-years mortality risk prediction: PALOMB Cohort
El-hassane Ouualaya (Merignac, France), Maëva Zysman, Émilie Berteaud, Laurent Falque, Laurent Nguyen, Jean Michel Dupis, Marielle Sabatini, Alain Bernady, Annaig Ozier, Cécilia Nocent-Ejaimi, Christophe Roy, Frédéric Le Guillou, Emmanuel Monge, Mohammed Aliati, Laura Prudhomme, Laura Petrov, Marie Line Quinquenel, Mohammed Staali, Frederic Pilar, Marc Sapène, Julien Castegit, Jean Moinard, Yannick Daoudi, Esther Iglesias, Elodie Blanchard, Julie Macey, Rémi Veillon, Xavier Demant, Claire Bon, Leo Grassion, Mathieu Molimard, Chantal Raherison-Semjen

Depressive symptoms among patients with chronic obstructive pulmonary disease before and after smoking cessation - a Danish nationwide cohort study of 21 184 patients
Jakob Hedemark Vestergaard (København N, Denmark), Pradeesh Sivapaleen, Rikke Sørensen, Josefín Eklöf, Imane Achir Alisahpic, Anna Von Bülow, Niels Seersholm, Jens-Ulrik Stæhr Jensen

Longitudinal changes in appendicular skeletal muscle mass among asthma and COPD subjects: The Rotterdam Study
G. Elizabeth Benz (Rotterdam, Netherlands), Emmely W. De Roos, Katerina Trajanoska, Sara Wijnant, Marten Van Den Berg, Maria De Ridder, Lisa Van Der Burgh, Jorunn Kirkeleit, Trond Riese, Matthias Wielserhe, Julia Dratva, Simone Accordini, Anne-Elie Carsin, Angelo Guido Corsico, Karl Franklin, Matthias Holm, Christer Janson, Benedicte Leynaert, Caroline Lodge, Chantal Raherison, Francisco Gomez Real, Vivi Schlunssen, Judith Garcia-Aymerich, Shymali Dharmage, Debbie Jarvis, Marjo-Riita Jarvelin

The association between airflow limitation and dyspnea and comorbidity related to COPD in the Nagahama study
Mariko Kogo (Hyogo prefecture, Japan), Susumu Sato, Shigeo Muro, Natsuko Nomura, Noriyuki Tashima, Tsuyoshi Oguma, Kimihiko Murase, Takahisa Kagawuchi, Yasuharu Tabara, Fumihiko Matsuda, Kazuo Chin, ToyoHIRA Hirai, Hisako Matsumoto

Elevated cardiac troponin predicts 11-year mortality in COPD
Ulf Nilsson (Umeå, Sweden), Nicholas Mills, Helena Bäckman, Caroline Stridsman, Linnea Hedman, Eva Rönmark, Anders Blomberg, Anne Lindberg

Pre-congress content Session 111 00:00 - 23:59
E-poster session: Tuberculosis and society

Disease(s): Airway diseases
Method(s): General respiratory patient care, Epidemiology, Cell and molecular biology, Public health
Chairs: Tjip S. van der Werf (Groningen, Netherlands), Chair to be confirmed

Non-communicable comorbidities of Tuberculosis
Layth Al-Salihi (Baghdad, Iraq), Ahmed Manhki

Are we ready to treat Tuberculosis in ambulatory care?
Ionut Stanciu (Constanta, Romania), Pohrib Ionela, Ghita Monica, Dantes Elena

Knowledge, attitudes and practices of accompanions of tuberculosis patients followed in the respiratory department of the Hassan II university hospital.
Hind Serhane (Marrakech, Morocco), Khadija Aitnasser, Fatiha Bounoua, Houda Moubachir

Screening of the under-served population of Luton for tuberculosis and blood-borne viruses.
Syed Tariq (Luton (Bedfordshire), United Kingdom), Sultan Salimee
Knowledge, attitudes and perceptions survey regarding tuberculosis in hospitalized patients
Ionel-Alena Grosu-Creangă (Iasi (Iasi), Romania), Cristina Mihaela Ghiciuc, Ioana Buculei, Irina Mihaela Eșanu, Adriana Sorete Arbore, Elena Cătălina Lupușoru

Advance lung function testing: Lung Volumes(TLC) & Diffusing Capacity(DLco) diagnoses substantial pulmonary function impairment in treated Pulmonary Tuberculosis patients
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Dhivyaa Roy, Deepa Shankar, Balamugesh Thangakunam

Tuberculosis spread among different strata of megapolis population, impact of migration
Evgeny Belilovskiy (Moscow, Russian Federation), Elena Bogorodskaya, Sergey Borisov, Aleksandra Temlyakova, Andrey Ilchenko

TB "cross-border" - a new challenge in tuberculosis management
Ioana Munteanu (Bucuresti, Romania), Beatrice Mahler, Dragos Sion, Nicoleta Cioran

Whole genome sequencing of the highly virulent subtype B0/W148 of the Beijing genotyp M.tuberculosis in Kharkiv, East Ukraine

Determination of the type of acetylation in adult patients with lung tuberculosis
Ksenia Gallkina (Moscow, Russian Federation), Elena Nosova, Maria Krasnova, Anastasia Khakhalina, Alexandra Isakova, Svetlana Safonova

Genotype of M. tuberculosis in tuberculosis patients registered in megapolis
Evgeny Belilovskiy (Moscow, Russian Federation), Aleksandra Temlyakova, Maria Krasnova, Anastasia Khakhalina, Svetlana Safonova

DETECTION OF NONTUBERCULOSIS MYCOBACTERIA IN NATIONAL REFERENCE LABORATORY (NRL) OF UZBEKISTAN
Sanjar Sultanov (Tashkent, Uzbekistan), Nargiza Parpieva, Kazim Mukhamedov, Mukhabbat Djurabaeva, Zuhriddin Nuriddinov, Ekaterina Anvarova

Epidemiological and bacteriological characteristics of tuberculosis (TB) in the Russian Arctic (RA) region indigenous people and newcomers
Tatyana Tyulkova (Moscow, Russia, Russian Federation), Anastasiia Russkikh, Sergey Skornyakov, Katerina Kuznetsova, Vladimir Khorotetto, Zhdana Karavaeva, Irina Vasilyeva

Tuberculosis infection in renal transplant recipients and evaluation of risk factors.
Dorina Rama Esendagli (Ankara, Turkey), Fusun Eyuboglu, Aydinac Akdur

Comparative study on the diagnostic value of a modern gamma-interferon test applied in blood and bronchoalveolar lavage in children suspected of tuberculosis - final results
Nataliya Gavrovksa (Sofia, Bulgaria), Svetlana Velizarova, Albena Spasova, Dimitar Kostadinov, Hristo Shivachev, Yanko Pahnev, Zdravka Antonova

Results of tuberculosis contact tracing in a low incidence area using a Sharepoint database tool.
Rasmus Rude Laub (Virum, Denmark), Christian Niels Meyer

Study of states of leukocytes in blood of pulmonary tuberculosis patients with different efficacy of treatment.
Olga Hovardovska (Kharkiv, Ukraine), Olga Chevchenco, Lilia Tudoriko, Olga Pogorelova, Olga Shvets, Iryna Ovcharenko

Quantiferon test in the complex diagnosis of tuberculosis in patients with end-stage kidney disease
Olga Gordeeva (Moscow, Russian Federation), Vladislav Hergert, Irina Lyadova, Natalya Karpina

Pre-congress content

Session 112 00:00 - 23:59

E-poster session: Epidemiology and treatment of pulmonary arterial hypertension
Disease(s): Pulmonary vascular diseases, Respiratory critical care
Method(s): General respiratory patient care, Pulmonary function testing, Respiratory intensive care, Surgery, Epidemiology, Public health, Physiology, Imaging
Chairs: Sandeep Sahay (Houston, United States of America), Esther Jeritza Nossent (Amsterdam, Netherlands)

Drug-drug interaction study between zamicastat and sildenafil in healthy subjects
Ana Santos (Porto, Portugal), Joao Ferreira, Helena Gama, Paulo Magalhães, Patricio Soares-Da-Silva
1459 LTI-201: Evaluation of the hemodynamics and safety of inhaled LIQ 861 (treprostinil) in pulmonary arterial hypertension (WHO Group 1) patients
Laurent Savale (Le Kremlin-Bicêtre, France), Robert F. Roscigno, Marc Humbert, Toby Vaughn, Werner Seeger

1460 Inspiratory flow patterns with dry powder inhalers (DPIs) of low and medium flow resistance in subjects with pulmonary arterial hypertension (PAH)
Mariana Faria Urbina (Boston, United States of America), Keith Ung, Larry Zisman, Aaron Waxman

1461 Inspiratory flow profiles of PAH patients with AOS™ device intended to administer inhaled vardenafil
Sandeep Sahay (Houston, United States of America), Royanne Holy, Shirley Lyons, Ed Parsley, Mari Maurer, Jeff Weers

1462 Long-term survival in pulmonary hypertension with atrial septostomy: a single center experience
Rodrigo Zebadua (Ciudad de México, Mexico), Tomas Pulido, Nayeli Zayas, Julio Sandoval, Julio Lopez, Antonio Garcia

1463 Macitentan in incident and prevalent pulmonary arterial hypertension (PAH): OPUS/OrPHeUS real-world data
Lana Melendres-Groves (Albuquerque, United States of America), Richard Channick, Kelly Chin, Vallerie V. Mclaughlin, Megan Flynn, Rose Ong, Graham Wetherill, Nick H. Kim

1464 Safety of macitentan in portopulmonary hypertension (PoPH): Real-world experience by liver transplant candidacy in the OPUS registry
Helary DuBrock (Rochester, United States of America), Richard Channick, Nick H. Kim, Vallerie V. Mclaughlin, Peter Agron, Sandrine Leroy, Graham Wetherill, Kelly Chin

1465 Long-term riociguat treatment towards implementing a targeted treatment strategy in patients with idiopathic pulmonary arterial hypertension
Anna Alleeyskaya (Moscov, Russia), Svetlana Gratsianskaya, Zarina Valieva, Tamila Martynyuk

1466 Loss of response to calcium channel blockers after long-term follow up in idiopathic pulmonary arterial hypertension
Bruna Piloto (São Paulo (SP), Brazil), Caio Fernandes, Carlos Jardim, Marcela Castro, William Salibé-Filho, Jose Leonidas Alves-Jr, Luciana Morinaga, Juliana Sobral-Alves, Susana Hoette, Mario Terra-Filho, Rogerio Souza

1467 Perioperative management of patients with Pulmonary Hypertension undergoing Non-Cardiac Surgery: A Systemic Review and UK Consensus Statement
Laura Price (London, United Kingdom), Aimee Brame, Guillermo Martinez, Bhaskar Mukerjee, Carl Harries, Aleksander Kempny, Philip Marino, Colin Church, Martin Johnson, Robin Condiffe, David Kiely, Rachel Davies, Luke Howard, Gerry Coghlan, Jim Lordan, Dolores Taboada, Tom Pickworth, David Alexander, Davina Wong, Andrew Curry, Sean Gaine, Ben Garfield, Nonni Reed, Susanna Price, Stephane Ledot, Kostantinos Dimopoulos, S John Wort

1468 Perioperative management of patients with pulmonary hypertension in non-cardiac surgery, a retrospective study in a reference center
nina cugnin (TOULOUSE, France), Olivier Mathe, Gregoire Prevot, Elise Noel Savina

1469 Sex bias exists in diagnosing pulmonary arterial hypertension via machine learning
Johanna Uthoff (Sheffield, United Kingdom), Samer Alabed, Pankaj Garg, Allan Lawrie, Jim M Wild, David G Kiely, Haiping Lu, Andrew J Swift

1470 Air pollution and pulmonary arterial hypertension. Outcomes in a referral center from Mexico City.
Daniel Astorga (Mexico City, Mexico), Tomás Pulido Zamudio, Euardo Diaz, Abraham Cruz, Nayeli Zayas, Julio Cesar Lopez, Rodrigo Zebadua, Julio Sandoval

1471 Implementation of a systematic comprehensive geriatric assessment for elderly patients suspected of pulmonary hypertension
Laurent Bertolletti (Saint Etienne Cedex, France), Ludovic Lafaie, Cécile Duvillard, Elodie De Magalhaers, Soud Bezzeghoud, Sandrine Accassat, Paul-Benoît Poble, Pierre-Benoit Bonnefoy, Claire Tulane, Thomas Celarier

1472 Psychological disorders in patients with pulmonary arterial hypertension (Data from the PEPPAH-Study)
Tanja Mellendorf (, Germany), Kai G Kahl, Henning Gall, Manuel J Richter, Jan Fuge, Marius M Hoepner, Hossein A Gholifani, Karen M Olsson

1473 LONG-TERM FOLLOW-UP OF PATIENTS WITH SYSTEMIC SCLEROSIS AND NORMAL OR BORDERLINE PULMONARY pressures
Pavel Jansa (Jínny, Czech Republic), Vladimír Dytrych, David Ambrož, Radim Bečvář, Regina Herčíkova, Aleš Linhart

1474 BURDEN STUDY OF PULMONARY ARTERIAL HYPERTENSION AND CHRONIC THROMBOEMBOTIC PULMONARY HYPERTENSION FOR COLOMBIA POPULATION
Dario Londoño (Bogotá, Colombia), Claudio Villaquirán, Rubén Dueñas, Alejandra Taborda, Kamilo Rojas, Cindy Chamorro

1475 Quality of online information on pulmonary arterial hypertension.
Dana Saleh (Calgary, Canada), Jolene Fisher, Steeve Provencier, Christopher Ryerson, Jason Weatherald
Impact of direct-acting antiviral (DAA) treatment for hepatitis C on pulmonary hemodynamics

Pre-congress content  Session 113  00:00 - 23:59

E-poster session: Experimental approaches to pulmonary hypertension

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

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

Chairs: Frances S. De Man (Amsterdam, Netherlands), Laurence Dewachter (Bruxelles, Belgium)

1477 CFTR and risk of pulmonary arterial hypertension: a case report and mendelian randomization study
Jing Liao (Guangzhou, China), Wenzun He, Yuqin Chen, Yadan Hu, Yao Ning, Kail Yang, Jian Wang

1478 CFTR involvement in the pathogenesis of pulmonary arterial hypertension
Fabrice Antigny (Paris, France), Lucie To, Hélène Leribeuz, Maria-Rosa Ghigna, Mélanie Lambert, Clémence Martin, Pierre-Régis Burgel, Angèle Boët, Frédéric Becq, Justin Issard, Christine Pechoux, Boris Manoury, Olaf Mercier, Frédéric Perros, Marc Humbert, David Montani

1479 Inflammation biomarkers and risk of pulmonary hypertension: a Mendelian randomization study
Yuanwei Chen (Guangzhou, China), Jing Liao, Jiarui Zhang, Yuqin Chen, Jian Wang

1480 Inhaled liposomal treprostinil (L606) shows extended release in healthy volunteer, as well as prolongs pharmacological effect in hypoxia-induced rat.
Pei Kan (Taipei, Taiwan), Ko-Jie Chen, Cleo Pan

1481 Comparison of Treprostinil Palmitil Inhalation Suspension (TPIS) or Oral Sildenafil (Sild) in a Sugen/Hypoxia Rat Model of PAH.
Michel Corboz (Bridgewater, United States of America), Sandra Gagnon, C Brodeur, Charles E Laurent, Adam J Plaunt, Vladimir Malinin, Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins, Richard W Chapman

1482 Additive protective effects of sacubitril/valsartan and bosentan on vascular remodeling in experimental pulmonary hypertension
Marie-Camille Chaumais (Le Kremlin Bicêtre, France), Marie-Camille Chaumais, Mohamed Reda Amar Djessa, Raphaël Thuillet, Amélie Cumont, Ly Tu, Guillaume Hebert, Pauline Gaignard, Alice Huertas, Laurent Savale, Marc Humbert, Christophe Guignabert

1483 Zamicastat decreases cardiac arrhythmias in a rat model of pulmonary arterial hypertension
Nuno Pires (Coronado (S. Romao e S. Mamede), Portugal), Bruno Igreja, Luis Magalhaes, Maria-Joao Bonifacio, Eric Chevalier, Patricio Soares-Da-Silva

1484 Relationship between Galectin-3 and mineralocorticoid receptor in pulmonary hypertension
Carl Tanba (Boston, United States of America), Guanming Qi, Rod Warburton, Krishna Penumatsa, Deniz Toksoz, Jamie Wilson, Harrison Farber, Nicholas Hill, Ioana Preston

1485 Mitophagy plays an important role in hypoxia-induced pulmonary artery smooth muscle cell proliferation
Shujing Guo (Chengdu (Sichuan, China), Qianan Zuo, Yutian Zhou, Xiaohui Li

1486 No evidence of desensitization to repeat dosing with treprostinil palmitil inhalation suspension (TPIS) for 32-consecutive days in hypoxia-challenged telemetered rats
Richard W. Chapman (Bridgewater, United States of America), Michel Corboz, Sandra Gagnon, C Brodeur, Adam J Plaunt, Vladimir Malinin, Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins

1487 Early atorvastatin administration suppresses the oxygen-activating ability of rat neutrophils during monocrotalinin-induced pulmonary arterial hypertension (PAH).
Volha Yatsevich (Minsk, Belarus), Igor Adzerikho, Tatyana Vadimirkoua, Galina Selenkova

1488 Basement membrane, a specialized extracellular matrix, shapes endothelial function in IPAH
Katharina Jandl (Graz, Austria), Leigh M. Marsh, Julia Hoffmann, Ayse Ceren Mutgan, Oliver Baum, Wilhelm Bloch, Katharina Sinn, Walter Klepetko, Akos Heinemann, Andrea Olschewski, Horst Olschewski, Grazyna Kwapiszewska

1489 Improvements in the dysfunctional right ventricle with Macitentan treatment in a sugen/hypoxic rat model of pulmonary hypertension
Gerard Murphy (Glasgow (Glasgow), United Kingdom), Geeshath Jayasekera, James Mullin, Lindsay Gallagher, Yvonne Dempsea, David J Welsh
**Beta 3 adrenoceptor: a potential therapeutic target for pulmonary arterial hypertension**
Pedro Mendes Ferreira (Guimarães, Portugal), Birger Tielemans, Allard Wagenaar, Chantal Dessy, Jean-Luc Balligand, Marion Deroeux, Rozenn Quarck, Catharina Belge

**Pulmonary artery endothelial cell exposure to hepcidin affects BMP-signalling; relevance to vascular remodelling in PAH**
Ioannis Panselinas (London, United Kingdom), Quezia K Toe, Katie Clementson, Maziah M Ghazaly, S John Wort, Gregory J Quinlan

**Soluble LR11 level is correlated with the severity of pulmonary hypertension due to left heart disease.**
Yusuke Joki (Tokyo, Japan), Hakuoh Konishi, Kiyoshi Takasu, Kazunori Shimada

**Extended versus limited stimulation-guided pulmonary artery catheter denervation in normotensive pigs: acute hemodynamic effects**
Natalia Goncharova (Saint-Petersburg, Russian Federation), Alexandr Vakhrushev, Heber Ivan Condori Leandro, Stepan Voronin, Lada Murashova, Lev Korobchenko, Elizaveta Andreeva, Lubov Mitrofanova, Dmitry Lebedev, Olga Moiseeva, Evgeny Mikhailov

**Mendelian Randomization Study Showed No Causality between Type 2 Diabetes and Pulmonary Hypertension**
Jiarui Zhang (China), Jing Liao, Yuanwei Chen, Yuqin Chen, Jian Wang

**Role of IL-11 system in Pulmonary Hypertension**
Ines Roger (Valencia, Spain), Javier Milara, Cristina Estornut, Amparo Bayarri, Antonio Garcia, Julio Cortijo

**No indication of insulin resistance in idiopathic PAH with preserved physical activity**
Bence Nagy (Graz, Austria), Gabor Kovacs, Adrienn Tornyos, Eva Svehlikova, Vasile Foris, Chandran Nagaraj, Grazyna Kwapieszewska, Thomas R. Pieber, Andrea Olschewski, Horst Olschewski

**Percent-predicted incremental shuttle walking test distance stratifies risk in pulmonary arterial hypertension**
Robert A. Lewis (Sheffield (South Yorkshire), United Kingdom), Thomas Kelly, Emma Drew, Catherine G Billings, Judith Hurdman, Ian Smith, Matthew Austin, Thomas Howard, Karen Marson, Craig Ballard, Aaron Waxman, David Gkiely

**A high pulmonary capillary blood volume allows for increased aerobic exercise capacity at a lower ventilatory cost in healthy adults**
Vitalie Faoro (Bruxelles, Belgium), Kevin Forton, Robert Naeije

**Proteomic profiling identifies an exercise signature in patients with pulmonary arterial hypertension**
Jane Leopold (Boston, United States of America), Bradley Maron, Craig Ballard, Aaron Waxman, David Systrom

**Effects of endurance exercise training on circulating endothelial progenitor cells and endothelial microparticles in patients with pulmonary arterial hypertension**
Clara Martin Ontiyuelo (Sant Cugat del Vallès (Barcelona), Spain), Diego Agustin Rodriguez Chiaradía, Isabel Blanco, Olga Tura Ceide, Anna Rodó Pin, Anna Herranz, Jessica Garcia, Víctor Peinado, Lucilla Piccari, Lluis Molina Ferragut, Joan Albert Barberà

**Cardiopulmonary exercise test unveils abnormal exercise physiology in patients affected by pulmonary arterial hypertension with a low-risk profile 6 minute walk distance.**
Beatrice Vigo (Milano (MI), Italy), Rocco Francesco Rinaldo, Rachel Davies, Francesco Lo Giudice, Gulammedhi Haji, Stefano Centanni, Luke Howard

**Cardiopulmonary exercise testing responses to initial treatment in Group 1 pulmonary hypertension**
Rocco Francesco Rinaldo (Milano (MI), Italy), Beatrice Vigo, Rachel Davies, Gulammedhi Haji, Francesco Lo Giudice, Stefano Centanni, Luke Howard

**Stepping is a discriminative field exercise modality with similar performance compared to 6-MWT to predict low risk in PH**
Lívia Cunha Cé (Curitiba (PR), Brazil), Danilo Cortez Berton, Elisa Schroeder, Franciele Plachi, Marli Maria Knorst, Igor Gorski Benedetto, Marcelo Basso Gazzana
Cardiopulmonary exercise testing in risk stratification of patients with PAH associated with congenital heart disease and Eisenmenger syndrome
Svetlana Gratsianskaya (Moscow, Russian Federation), Anna Aleevskaya, Zarina Valieva, Tamila Martynyuk

Effect of normobaric hypoxia on constant work-rate cycle time in patients with precapillary pulmonary hypertension - a RCT
Simon Raphael Schneider (Zürich, Switzerland), Laura C Mayer, Mona Lichtblau, Charlotte Berlier, Esther I Schwarz, Stéephane Saxer, Michael Furian, Konrad Bloch, Silvia Ulrich

Exercise capacity in patients with Pulmonary Arterial Hypertension: multicentric analysis of aerobic capacity and survival
Rodrigo Torres-Castro (Santiago, Chile), Elena Gimeno-Santos, Maria Lorena Coronel, Pilar Escribano-Subías, Isabel Blanco, Joan Albert Barberá

Impact of timing on right heart catheterization measurements in pulmonary hypertension
Athiththan Yogeswaran (Giessen, Germany), Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall

Effect of normobaric hypoxia on constant work-rate cycle time in patients with precapillary pulmonary hypertension - a RCT
Simon Raphael Schneider (Zürich, Switzerland), Laura C Mayer, Mona Lichtblau, Charlotte Berlier, Esther I Schwarz, Stéephane Saxer, Michael Furian, Konrad Bloch, Silvia Ulrich

Exercise capacity in patients with Pulmonary Arterial Hypertension: multicentric analysis of aerobic capacity and survival
Rodrigo Torres-Castro (Santiago, Chile), Elena Gimeno-Santos, Maria Lorena Coronel, Pilar Escribano-Subías, Isabel Blanco, Joan Albert Barberá

Impact of timing on right heart catheterization measurements in pulmonary hypertension
Athiththan Yogeswaran (Giessen, Germany), Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall

Exercise-induced changes in pulmonary arterial wedge pressure: insights from heart failure with preserved ejection fraction
Claudia Baratto (Milano, Italy), Sergio Caravita, Andrea Faini, Davide Soranna, Céline Dewachter, Giovanni Battista Perego, Antoine Bondue, Antonella Zambon, Luigi P Badano, Michele Senni, Gianfranco Parati, Jean-Luc Vachiéry

Predictors of a precapillary component in patients with postcapillary pulmonary hypertension
Damien Fard (Créteil, France), Athénaïs Boucly, Mariana Preda, David Montani, Xavier Jais, Laurent Savale, Xavier Mignard, Mitja Jevnikar, Etienne-Marie Jutant, Andrei Seferian, Marc Humbert, Jean-Luc Vachiéry, Olivier Sitbon

Pulmonary artery pressure-flow relation during exercise in highlanders vs. lowlanders
Mona Lichtblau (Zollikon, Switzerland), Stéphanie Saxer, Patrick Bader, Paula Appenzeller, Philipp Scheiwiller, Michael Furian, Maamed Mademilov, Ulan Sheraliev, Talant Sooronbaev, Konrad Bloch, Silvia Ulrich

Is cardiac output assessed by inert gas rebreathing technique predictive of mortality in pulmonary hypertension?
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Katherine Bunclark, Robert Mackenzie, John Cannon, Karen Sheares, Dolores Taboada, Joanna Pepke-Zaba*, Mark Toshner*

Pulmonary exercise hemodynamics in patients with liver cirrhosis - a stress echocardiography study.
Alexander Altekruse (Graz, Austria), Gabor Kovacs, Teresa Sassmann, Vasile Foris, Alexander Avian, Vanessa Stadlbauer, Rudolf Stauber, Horst Olschewski, Philipp Douschan

Pulmonary Vascular Resistances are Predictors of 3-year-survival in Systemic Sclerosis
Katarina Zeder (Graz, Austria), Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

Exercise Pulmonary Vascular Resistances are Predictors of Survival in Systemic Sclerosis
Katarina Zeder (Graz, Austria), Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

Pre-congress content

E-poster session: Clinical evaluation, biomarkers and risk assessment of pulmonary hypertension

Disease(s): Pulmonary vascular diseases
Method(s): General respiratory patient care Imaging Epidemiology Cell and molecular biology Pulmonary function testing Public health

Chairs: Valentina Mercurio (Napoli, Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)

Precapillary pulmonary hypertension in patients with a high HFpEF probability: Insights from the Amsterdam UM C PAH-cohort
Azar Kianzad (Amsterdam, Netherlands), Frances S De Man, Lucas R Celant, Anton Vonk Noordegraaf, Louis M Handoko, Harm Jan Bogaard

A Minimal Clinically Important Difference for CAMPHOR in Idiopathic Pulmonary Arterial Hypertension
Katherine Bunclark (Cambridge (Cambridgeshire), United Kingdom), Natalie Doughty, Alice Michael, Nisha Abraham, Samantha Ali, John Cannon, Karen Sheares, Nicola Speed, Dolores Taboada, Mark Toshner, Joanna Pepke-Zaba
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<td>Assessment of quality of life and social and economic impact of the disease in patients with pulmonary arterial hypertension in Germany - Data of the SANTANA-Study</td>
<td>Jan Fuge (Hannover, Germany), Manuel Jonas Richter, Henning Gall, Ardeschir Ghofrani, Marius M Hoeper, Karen M Olsson</td>
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<td>1519</td>
<td>Lung perfusion in pulmonary hypertension - results from the RESPIRE study</td>
<td>Paul Hughes (Sheffield (South Yorkshire), United Kingdom), Andrew Swift, Frederick Wilson, Marcella Cogliano, Faisal Alandejani, Anthony Cahn, Lindsay Kendall, David Kiely, Jim Wild</td>
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<td>1520</td>
<td>Risk stratification and prognostic factors in patients with pulmonary arterial hypertension and comorbidities</td>
<td>Benjamin Egenlauf (Heidelberg, Germany), Panagiota Xanthouliti, Maria Kögler, Alberto Marra, Nicola Benjamin, Lukas Fischer, Christian Eichstaedt, Satenik Harutyunova, Christian Nagel, Ekkehard Grünig</td>
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<td>Risk assessment, therapy and cardiovascular comorbidity in patients with pulmonary arterial hypertension</td>
<td>Katleen Swinnen (Leuven, Belgium), Marion Delcroix, Rozenn Quarc, Celine Dewachter, Jean-Luc Vachiéry, Catharina Belge</td>
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<td>1522</td>
<td>Cardiac MRI right atrial area measurement thresholds for risk stratification in patients with PAH</td>
<td>Faisal Alandejani (Sheffield, United Kingdom), Euan Tubman, Yousef Shahin, Robert Lewis, Krit Dwiwedi, Dheya Alkhanfar, Samer Alabeled, Chris Johns, Pankaj Garg, Robin Condliffe, Allan Lawrie, Jim Wild, David Kiely, Andrew Swift</td>
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<td>Risk status at selexipag initiation in pulmonary arterial hypertension (PAH): Insights from EXPOSURE</td>
<td>Sean Gaine (Dublin, Ireland), Pilar Escribano, Patricia Biedermann, Audrey Muller, Hong Sun, Stefan Söderberg, Tobias J Lange</td>
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<td>1524</td>
<td>Metabolic profiling of pulmonary vascular phenotypes in systemic sclerosis</td>
<td>Catherine Simpson (Baltimore, United States of America), Stephen Mathai, Todd Kolb, Paul Hassoun, Susan Aja, Aurelie Roux, David Graham, Rachel Damico</td>
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<td>1526</td>
<td>mRNA sequencing of educated platelets generates a diagnostic biomarker for discrimination between pre- and post -capillary pulmonary hypertension.</td>
<td>Mohammad Arkani (Amsterdam, Netherlands), Samara Jansen, Sjors In'T Veld, Josien Smits, Edward Post, Kenn Zwaan, Jip Ramaker, Frances S. De Man, Anton Vonk Noordegraaf, Myron Best, Thomas Wurdinger, Harm-Jan Bogaard</td>
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<td>1527</td>
<td>Utility of D-Dimer for mortality prediction in patients at risk for pulmonary hypertension</td>
<td>Vasile Foris (Graz, Austria), Florian Prüller, Gabor Kovacs, Alexander Avian, Philipp Douschan, Markus Herrmann, Horst Olschewski</td>
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<td>1528</td>
<td>Association between Metabolites Biomarkers and Pulmonary Hypertension:A Mendelian Randomization analysis</td>
<td>Dansha Zhou (Guangzhou,Guangdong Province, China), Jing Liao, Yuqin Chen , Jian Wang</td>
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<td>1529</td>
<td>Impact of the new definition of precapillary pulmonary hypertension on patient disposition</td>
<td>Piet Rosenstock (, Austria), Katarina Zeder, Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs</td>
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<td>1530</td>
<td>Impact of the new hemodynamic classification in the diagnosis of pulmonary hypertensionReport from a pneumology based PH center</td>
<td>Katharina Heinig-Menhard (Tutzing, Germany), Cosmina Stoleriu, Marion Heiss-Neumann, Edith Silbernagel, Margot Neiswirth, Juergen Behr, Ralf Göres, Wolfgang Gesierich, Frank Reichenerger, Frank Reichengerger</td>
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<td>CIPHER: a prospective, multicentre study for the identification of biomarker signatures for early detection of pulmonary hypertension</td>
<td>Luke Howard (London, United Kingdom), Kelly Chin, Yiu-Lian Fong, Cynthia Gargano, Dimitri Stamatiadis, Bradley Maron, Joana Preston, Deborah Quinn, Stephan Rosenkranz, Mark Toshner, Martin Wilkins, David Kiely</td>
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<td>1532</td>
<td>Feasibility of microRNA signatures for detection early stage pulmonary hypertension</td>
<td>Aaron Waxman (Boston, United States of America), Yiu-Lian Fong, Timothy Jatkoe, He Cheng, Lihan Zhou, Charles Bridges</td>
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<td>1533</td>
<td>Reliability of echo systolic pulmonary arterial pressure to detect new definition of pulmonary hypertension</td>
<td>Henning Gall (Gießen, Germany), Athiththan Yogeswaran, Khodr Tello, Natasa Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter</td>
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<td>1534</td>
<td>Using parasternal electromyogram to measure neural respiratory drive in pulmonary hypertension</td>
<td>Paul Mccaughey (Glasgow (Glasgow), United Kingdom), Michael Megetrick, Alexander Maclellan , Melanie Brewis, Colin Church, Martin Johnson</td>
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Prevalence of hyperventilation syndrome in pulmonary arterial hypertension
Etienne-Marie Jutant (Paris, France), Clara Malka Ruimy, Antoine Beurnier, Abdelkader Belguendouz, Marianna Preda, Xavier Jaïs, Laurent Savale, Gilles Garcia, Marc Humbert, Olivier Sitbon, David Montani

Pre-congress content  Session 116  00:00 - 23:59
E-poster session: Chronic thromboembolic pulmonary hypertension

Disease(s): Pulmonary vascular diseases

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

Chairs: Gérald Simonneau (Le Kremlin-Bicêtre, France), Laurent Godinas (Leuven, Belgium)

1536 The assessment of lung function and residual hypoxemia after balloon pulmonary angioplasty for patients with non-operable chronic thromboembolic hypertension
Yoichiro Matsuoka (Kobe Hyogo, Japan), Yu Taniguchi, Keisuke Miwa, Keiko Sumimoto, Hiroyuki Onishi, Yasunori Tsuboi, Noriaki Emoto, Kenichi Hirata

1537 Initial dual oral combination therapy prior to pulmonary endarterectomy (PEA) in patients with operable chronic thromboembolic pulmonary hypertension (CTEPH) and high preoperative pulmonary vascular resistance (PVR)
Youssef Trigui (Béziers, France), Giulia Acquati, Mitja Jevnikar, David Montani, Laurent Savale, Olivier Sitbon, Olaf Mercier, Florence Parent, Etienne-Marie Jutant, Martine Reynaud-Gaubert, Elie Fadel, Gérald Simonneau, Marc Humbert, Xavier Jaïs

1538 Accuracy of pre-operative specimen level prediction in chronic thromboembolic pulmonary hypertension (CTEPH) patients undergoing pulmonary thromboendarterectomy (PTE)
Pattarin Pirompanich (Pathumthani, Thailand), Timothy Fernandes, Kim Kerr, Michael Madani, Demosthenes Papamastheakis, David Poch, Victor Pretorius, Nick Kim

1539 Sequential multimodal therapy in patients with chronic thromboembolic pulmonary hypertension (CTEPH)
Mitja Jevnikar (Paris, France), Sabina Solmas, Philippe Brenot, David Montani, Laurent Savale, Olivier Sitbon, Elie Fadel, Gérald Simonneau, Marc Humbert, Xavier Jaïs

1540 Serial cardiac MRI for assessment of cardiac morphology and function in CTEPH patients after PEA or vasodilator therapy
Dheyaa Alkhanfar (Sheffield, United Kingdom), Yousef Shahin, Faisal Alandejani, Sameer Alabed, Chris Johns, Alex MK Rothman, Pankaj Garg, Robin Condiffe, Rehan Quadery, David G Kiely, Jim Wild, Andrew J Swift

1541 Introduction of a national multidisciplinary CTEPH board to improve operability assessment
Isabelle Opitz (Zurich, Switzerland), Frédéric Lador, John-David Aubert, Michael Tamm, Katarzyna Furrer, Mona Lichblau, Charlotte Berlier, Thomas Frauenfelder, Thomas Pfammatter, Anne-Lise Hachulla, Patrick Yerly, Jean-Marc Fellrath, Silvia Ulrich

1542 Survival in patients with chronic thromboembolic pulmonary hypertension in the modern management era
Yu Taniguchi (Kobe, Japan), Yoichiro Matsuoka, Hiroyuki Onishi, Noriaki Emoto, Hidekazu Nakai, Kenji Okada, Kenichi Hirata

1543 Epidemiology of chronic thromboembolic pulmonary hypertension (CTEPH) in the Czech Republic
Pavel Jansa (Jirny, Czech Republic), David Ambrož, Matyáš Kuhn, Vladimir Dytrych, Aleš Linhart, Jaroslav Lindner, Audrey Muller

1544 Adherence to guidelines of anticoagulant prescription in chronic thromboembolic pulmonary hypertension: an observational study
Marie-Camille Chaumais (Le Kremlin Bicêtre, France), Raphaël Rainone, Benjamin Querin, Najiba Alioua, Laurent Bertoletti, Sylvie Raspaud, Xavier Jaïs, Laurent Savale, Olivier Sitbon, Marc Humbert, David Montani

1545 Supervised exercise training in patients with chronic thromboembolic pulmonary hypertension (CTEPH) as early follow-up treatment after pulmonary endarterectomy (PEA) - a prospective cohort study
Mohammed Nasreddin (Eppelheim, Germany), Christian Nagel, Nicola Benjamin, Benjamin Egenlauf, Satenik Harutyunova, Christina Eichstaedt, Panagiotis Xanthoulis, Eckhard Mayer, Ekkhard Grüning, Stefan Guth

1546 Pulmonary angioplasty vs exclusive medical treatment in inoperable chronic thromboembolic hypertension-initial outcomes from a pulmonary hypertension centre
Ines Furtado (Porto, Portugal), Duarte Silva, Luisa Carvalho, Mario Santos, Fabienne Gonçalves, Andre Luz, Abilio Reis

1547 BPA for CTEPH: the Viennese experience
Christian Gerges (Wien, Austria), Richard Friewald, Inbal Shafran, Roela Saduishi-Kolic, Nika Skoro-Sajer, Mario Gerges, Bernhard Moser, Shahrokh Taghavi, Walter Klepetko, Irene Lang

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1548 Predictive Value of CT Pulmonary Angiography (CTPA) to Assess the Surgical Accessibility for Pulmonary Endarterectomy in Patients with CTEPH
Thomas Frauenfelder (Zürich, Switzerland), Michael Mcinnis, Matthias Eberhard, Marc De Perrot, Silvia Ulrich, Ilhan Inci, Isabelle Opitz

1549 LSC - 2020 - Comparison of metabolic profile in endothelial cells of chronic thromboembolic pulmonary hypertension and pulmonary arterial hypertension
Olga Tura-Ceide (Barcelona, Spain)

1550 Transforming growth factor beta induces Beclin-1 in pulmonary arterial endothelial cells
Po Ru Chen (New Taipei City 242, Taiwan), Ying Ju Lai

1551 Elevated Von Willebrand Factor expression in the activated pulmonary endothelium of chronic thromboembolic pulmonary hypertension patients enhances platelet adhesion.
Xue Daphne Manz (Utrecht, Netherlands), Xiaoake Pan, Petry Symersky, Jisca Majolée, Peter Hordijk, Jan Voorberg, Jurjan Aman, Harm Jan Bogaard, Robert Szulcek

1552 Plasma metabolomics in chronic thromboembolic pulmonary hypertension
Emilia Swietlik (Cambridge, United Kingdom), Pavandeep Ghataorhe, Kasia Zalewska, John Wharton, Luke S Howard, Dolores Taboada, John E Cannon, Nicholas W Morrell, Martin R Wilkins, Mark R Toshner, Joanna Pepke-Zaba, Christopher J Rhodes

1553 MicroRNA expression analysis in Chronic Thromboembolic Pulmonary Hypertension using pulmonary endarterectomy derived samples
Isabelle Opitz (Zurich, Switzerland), Itzel Shantal Martinez López, Theodorus Papasotiropoulos, Fabian Schlæpfer, Silvia Ulrich, Michaela B. Kirschner

Pre-congress content
Session 117  00:00 - 23:59
E-poster session: The young, the old and extrapulmonary tuberculosis
Method(s) : General respiratory patient care  Imaging  Epidemiology  Endoscopy and interventional pulmonology  Cell and molecular biology  Public health
Chairs : Valeriu Crudu (Chisinau, Republic of Moldova), James Seddon (London, United Kingdom)

1554 Incremental Yield of Xpert MTB/RIF Ultra over Xpert MTB/RIF in the diagnosis of extra-pulmonary tuberculosis
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Deepa Shankar, Coelho Victor, Ebby Simon, Balamugesh Thangakunam

1555 Internal mammary adenopathy: a diagnostic sign of pleural tuberculosis?
Maria Inês Costa (Rio Tinto, Portugal), Joana Gomes, Fernando Guedes, Ricardo Reis

1556 Can pleural biopsy histology in combination with pleural fluid adenosine deaminase be used for diagnoses of pleural TB?
Sundeep Ghuman (Hounslow, United Kingdom), Owais Kadvani, Junyi Zhang, Charlotte Carter, Ronan Breen, Liju Ahmed

1557 Evaluation of Th9 and Th22 cells within pleural effusions of tuberculosis and non-tuberculosis patients
Esmaeil Mortaz (Tehran, Islamic Republic of Iran), Neda Dalil Roofchayee, Majid Marjani, Mohammad Vahram, Neda K. Dezfuli, Ian M. Adcock

1558 Rethinking the cut-off value for pleural effusion adenosine deaminase and neutrophil-lymphocyte ratio in a setting of low TB incidence
Rebeca Martins Natal (Guarda, Portugal), Lígia Ribeiro, Gonçalo Samouco, Filipa Jesus, Fernando Pereira Silva, Luís Vaz Rodrigues

1559 Utility of pleural fluid glucose measurement in TB pleural effusions.
Charlotte Carter (London, United Kingdom), Owais Kadvani, Junyi Zhang, Sundeep Ghuman, Ronan Breen, Liju Ahmed

1560 Oesophageal TB secondary to mediastinal lymphadenitis: a London tertiary centre experience.
Catherine Dominic (Hull, United Kingdom), Hannah Gordon, Ananna Rahman, Veronica White, Louise Langmead, Simon Tiberi, Heike Kunst

1561 Menstrual Disorders in Non-genital Tuberculosis - an Ignored Entity
Mani Tiwari (Allahabad (Uttar Pradesh), India), Balakrishnan Menon

1562 Influence of HIV infection on spectrum of extrapulmonary tuberculosis
Ekaterina Kulchavenya (Novosibirsk, Russian Federation)
Expression of the PDCD1 gene to determine active tuberculosis infection in children and adolescents with latent TB infection
Mikhail Vladimirsky (Moscow, Russian Federation), Andrey Elov, Valentina Aksenova, Kirill Gerasimov

Acceptability of a new child-friendly dispersible tablet for drug-sensitive pulmonary tuberculosis in children
Aziza Pakhlavonova (Moscow, Russian Federation), Valentina Aksenova, Nadezhda Klevno, Alexey Kazakov

Tuberculosis exposure in a group of toddlers - what is the best strategy to prevent infections?
Folke Brinkmann (Bochum, Germany), Stefanie Dillenhöfer, Anne Schlegentandel

A Study on Various Types of Presentations of Paediatric Tuberculosis and Response to Fixed Dose Combination (FDC).
Kolla Madhuri (Bhubaneswar, India), Saswat Subhankar, Debee Prasad Dash

Case-management of MDR-TB in children: a longitudinal study on 209 cases
Cristina Licinscaia (Chisinau, Republic of Moldova), Stela Kulcitaia, Evelina Lesnic

Endobronchial tuberculosis: characteristics and bronchoscopic findings in children
Ludmila Pereira Barbosa Dos Santos (Niteroi (RJ), Brazil), Leticia Oliveira Dias, Paula Serrano Soares, Carmem Lúcia Teixeira De Castro, Robson De Alvarenga Facina, Licinio Esmeraldo Da Silva, Christiane Mello Schmidt, Claudete Aparecida Araújo Cardoso, Selma Maria De Azevedo Sias

Comparative results of the QuantiFERON laboratory test with a skin test containing the recombinant protein CFP-10-ESAT-6 and a Mantoux test with 2 TE in children with chronic non-specific lung diseases and tuberculosis.
SOFYA NAKONECHNAYA (MOSCOW, Russian Federation), Valentina Aksenova, Yuriy Mizernitsky

Non tuberculous mycobacterial pulmonary disease in the elderly
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Imanol Gonzalez Muñoz, Sandra Pedrero Tejada, Beatriz Gonzalez Quero, Elena Garay Llorente, Patricia Iraurgui Arcarazo, Rafael Zalacain Jorge

Pre-congress content
Session 118 00:00 - 23:59
E-poster session: Interventional pulmonology: unity in diversity

Late Breaking Abstract - Microwave ablation via a flexible catheter for the treatment of nonsurgical peripheral lung cancer: a pilot study
Jiayuan Sun (Shanghai, China), Jiayuan Sun, Fangfang Xie, Junxiang Chen, Xiaoxuan Zheng

A modified staged treatment algorithm using the Aeriseal System
T. David Koster (GRONINGEN, Netherlands), Dirk-Jan Slebos, Felix Herth, Karin Klooster, Ralf Eberhardt, Ralf-Harto Huebner, Arschang Valipour

Metered Cryospray Modulates Bronchial Epithelial Gene Expression in Patients with Chronic Obstructive Pulmonary Disease
Christopher M Orton (London, United Kingdom), Justin L Garner, Tacita A Shah, Cielito Caneja, Kian F Chung, Pankaj K Bhavsar, Pallav L. Shah

Endobronchial Valves: First french multicenter retrospective study on the 2 steps approach
Thomas Egenod (Limoges, France), Nicolas Guibert, Yoann Ammar, Romain Kessler, Benedicte Toublanc, Nicolas Favrot, Amandine Briault, Hervé Dutau, Frederic Wallyn, Armelle Marceau, Laurent Cellier, Samy Lachkar, Julien Dutilh, Jean-Michel Vergnon, Matthieu Dusselier

CT-approximated perfusion is comparable to nuclear perfusion imaging
T. David Koster (GRONINGEN, Netherlands), Ebrahim Hazrati, Eva M. Van Rikxoort, Karin Klooster, Jean-Paul Charbonnier, Dirk-Jan Slebos

Implementing bronchoscopic lung volume reduction using one-way endobronchial valves in a Dutch university hospital, retrospective real-life outcomes at 3 months.
Rein Posthuma (Maastricht, Netherlands), Anouk Vaes, Kim Walraven, Geertjan Wesseling, Emiel Wouters, Lowie Vanfleteren

Should we perform surgical lung biopsy when transbronchial cryobiopsy provides unclassifiable interstitial pneumonitis in a patient with diffuse interstitial lung disease?
Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Esmaeil Idani, Forouzan Mohammadi, Shirin Izadi, Behdad Boroofeh, Aptin Maboudi, Behnaz Jahanbin, Sahar Defaee, Negan Effekhar
1578 Transbronchial lung cryobiopsy guided with radial mini-probe EBUS for diagnosing peripheral lung lesions suspected of malignancy
Maciej Gnass (Myślenice, Poland), Joanna Sola, Stanisław Orzechowski, Monika Lis, Monika Skrobot, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski

1579 Transbronchial lung cryobiopsy (TLCB) in morphological and PCR diagnosis of tuberculosis and sarcoidosis
Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Irina Tabanakova, Sultan Gasanmagomedov, Gleb Beliaev, Tatiana Novickaya, Viacheslav Zhuravlev, Piotr Yablonskii

1580 Transbronchial Lung Cryobiopsy (TBLC) for Interstitial Lung Disease (ILD) can be safely done in patients with multiple medical comorbidities
Harprasad Kalpakam (India), Rajani Bhat, Sameer Bansal, Pooja Bajaj, Ravindra Mehta

1581 Instant on site pathology of cryobiopsies in interstitial lung disease
Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laura Van Huizen, Teodora Radonic, Peter Bonta, Marloes Groot, Jouke Annema

1582 Flexible bronchoscopy and the prognosis of esophageal cancer
V Fernandes (Maceira LRA, Portugal), J P Pereira, T M Alfaro, A J Ferreira, C R Cordeiro

1583 Polarization sensitive optical coherence tomography (PS-OCT) for bronchoscopic airway imaging.
Pieta Wijisman (Amsterdam, Netherlands)

1584 An improved technique in cryobiopsy of pleura
Syed Tousheed (Bangalore (Karnataka), India), Ravi Teja, Ph Manjunath, Hemanth Kumar, Sagar Chandrashekaraiah, Bv Murali Mohan, Ranganath Ramanjenaya

1585 Efficacy of medical thoracoscopy in thoracic empyema treatment
Valentina Pinelli (Sarzana, Italy), Guido Levi, Federica Novelli, Vanna Balestracci, Massimiliano Sivori, Giam Pietro Marchetti

1586 Risk of subcutaneous emphysema following IPC insertion at local anaesthetic thoracoscopy
Alison Stockbridge (Birmingham, United Kingdom), Sarah Johnstone, Muhammad Tufail, R K Panchal

1587 The utility of pleural fluid lactate dehydrogenase to adenosine deaminase ratio in pleural tuberculosis
Coenraad Frederik Nicolaas Koegelenberg (Cape Town, South Africa), Amanda Beukes, Jane Alexandra Shaw, Elvis Irusen, Andreas H Diacon

1588 Role of Indwelling Pleural Catheters in achieving spontaneous pleurodesis in Hepatic Hydrothorax - Pioneer Retrospective Study from a Tertiary care centre, India
Sivagnaname Yuvarajan (PONDICHERRY (Tamil Nadu), India), Praveen Radhakrishnan, Antonious Maria Selvam, K Durga

Pre-congress content  Session 119 00:00 - 23:59
E-poster session: Multidrug-resistant tuberculosis

Disease(s) : Airway diseases

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

Chairs : Keertan Dheda (Cape Town, South Africa), Sergey Evgenievich Borisov (Moscow, Russian Federation)

1589 First countrywide observational study of acquired drug resistance among TB cases in Ukraine
Andrii Dudnyk (Vinnytsia, Ukraine), Yaroslava Haborets, Victoria Kapitula, Liudmyla Kulyk, Jose Dominguez

1590 Video observed treatment for TB patients. Belarus experience.
Alena Skrahina (Minsk region, Belarus), Henadz Hurevich, Ekaterina Ilyasova, Vassily Akulov, Dmitry Klimuk, Viatcheslav Granok, Aliaksandr Skrahin, Masoud Dara

1591 Treatment of multidrug-resistant tuberculosis (MDR-TB) with modified shorter all-oral treatment regimen (mSTR) under operational research conditions in Belarus
Alena Skrahina (Minsk region, Belarus), Natalia Yatskevich, Henadz Hurevich, Viatcheslav Granok, Dmitry Klimuk, Varvara Solodovnikova, Dmitry Viatushka, Aliaksandr Skrahin, Elmira Gurbanova, Masoud Dara

1592 Line Probe Assay as a preliminary investigation for diagnosing resistant tuberculosis : A Single center experience
Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke

1593 Incidence of cycloserine induced neurotoxicity in drug resistant TB patients attending a tertiary care hospital.
Pratibha Singhal (Mumbai (Maharashtra), India), Prajay Lunia, Kapil Salgia, Iram Syed
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<td>Adverse effects among MDR/XDR TB patients with viral hepatitis appearing during TB chemotherapy</td>
<td>Edik Vaniev (Russia), Anastasia Samoilova, Irina Vasilyeva, Olga Lovacheva, Tatyana Tyulkova</td>
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<td>Proteasome Accessory Factor-C (PafC) as a potential regulator of mycobacterial survival in multi drug-resistant tuberculosis patients</td>
<td>APOORVA NARAIN, Rikesh Kumar Dubey, Ajay Kumar Verma, Anand Srivastava, Surya Kant</td>
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<td>Induction of M. tuberculosis (MTB) drug resistance (DR) mutations in HIV-infected hosts and pathways of further spread of the evolutionary successful drug-resistant MTB clonal lines</td>
<td>Grigory Kaminskii (Moscow, Russia), Anna Panova, Eduard Karamov, Elena Veselova, Sergey Smerdin, Marina Leichilyader, Anastasia Samoilova, Irina Vasilyeva</td>
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<td>Multivariate analysis of the effectiveness of bedaquiline-containing chemotherapy regimens in previously treated XDR TB patients</td>
<td>Nataliya Stavitskaya (Pushkin, Russia), Nataliya Stavitskaya, Sergey Smerdin, Dmitriy Kudlay, Nataliya Doktorova, Osiet Tlif, Tatyana Petrenko, Tatiana Kolpakova</td>
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<td>1598</td>
<td>The effect of anti-tuberculosis chemotherapy using second-line drugs on the structural and functional state of the thyroid gland</td>
<td>Anzhela Polyakova (Moscow, Russia), Atadzhon Ergeshov</td>
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<td>Frequency of side effects among patients with drug resistant tuberculosis (DR-TB) by resistance pattern in a high burden country</td>
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<td>Comparative analysis of M. tuberculosis drug susceptibility tests results in new multidrug-resistant tuberculosis cases and their confirmed contacts.</td>
<td>Anastasia Russikh (Moscow, Russia), Konstantin Glebov, Anastasia Samoilova, Olga Lovacheva, Irina Vasilyeva, Yulia Timakova</td>
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**Pre-congress content**

**Session 120 00:00 - 23:59**

**E-poster session: Screening and early lung cancer**

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

**Method(s):** General respiratory patient care, Imaging, Endoscopy and interventional pulmonology, Cell and molecular biology, Public health, Surgery, Pulmonary rehabilitation

**Chairs:** Fernando Gamarra (Straubing, Germany), Diego Kauffmann-guerrero (Munich, Germany)

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<td>Eliezer James Agula (Pasig, Philippines), Maria Nikki Cruz, Maria Janeth Samson, Jerald Gavin Lim</td>
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<td>Use of NELSON screening to early detect lung cancer(LC) patients in the Portuguese population</td>
<td>Inês Sucena Pereira (Vila Nova de Gaia, Portugal), Adelaide Alves, Daniel Coutinho, Telma Costa, Eloisa Silva, Sérgio Campainha, Margarida Dias, Ana Barroso</td>
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<td>Bronchiectasis and false positive cases in a lung cancer screening program</td>
<td>Maria Sanchez-Carpintero Abad (Orkoien (Navarra), Spain), Javier Zulueta, Juan Pablo De Torres, Ana Belen Alcaide, Pablo Sanchez Salcedo, Usua Montes, Gorka Bastarrrika, Arantza Campo</td>
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Effect of the Liverpool Healthy Lung Programme on Outcomes in Lung Cancer
Mark Ambrose (Liverpool, United Kingdom), Emily Hoodless, Michelle Woods, Martin Ledson, Martin Walshaw

Current situation of a smoking cessation and lung cancer screening programme in a Spanish third level hospital
Rosa Mirambeaux Villalona (Madrid, Spain), Deisy Barrios Barreto, Luis Gorospe Sarasua, Diurbis Velasco Alvarez, Carlos Almonacid Sánchez, Paola Arrieta Narváez, Isabel Hornero

Prevalence of lung cancer in patients with atherosclerotic peripheral arterial disease: meta-analysis of literature data
FLORE BINTEIN (Paris, France), Alexandra Yannoustos, Gilles Chatellier, Manon Fontaine, Diane Damotte, Patrizia Paterlini-Brechot, Guy Meyer, Véronique Duchatelle, Valeria Marini, Karl-Léo Schwering, Cécile Labrousses, Hélène Beauissier, Marc Zins, Sergio Salmeron, Jean-Patrick Lajonchère, Pascal Priollet, Joseph Emmerich, Jean Trédaniel

Characteristics of solid parts on the prognosis of lung cancer less than 2 cm in size
Jia-Jun Wu (Taichung, Taiwan), Chih-Ying Wu, Ching-Yang Wu, Chih-Liang Wang, Tsung-Ying Yang, Jeng-Sen Tseng, Kuo-Hsuan Hsu, Yen-Hsiang Huang, Cheng-Ping Hsü, Cheng-Yen Chuang, Chih-Hung Lin, Chien-Hua Tseng, Kun-Chieh Chen, Gee-Chen Chang

What is the value of diagnostic bronchoscopy in haemoptysis patients with a normal or benign CT scan?
Avinash Aujayeb (Newcastle, Mauritius), Karl Jackson, Rebecca Lapsley, Rebecca Webster, Robert Johnston, Sarah Welsh, Dan Mitchell, Hussain-Ara Shah

Objective measurement of tumor central location can predict nodal involvement in patients with cT1N0M0 non-small cell lung cancer
Mireia Martinez Palau (Terrassa, Spain), Bruno Garcia Cabo, Teodora Pribic, Bienvenido Barreiro Lopez, Lluis Esteban Tejero, Ramon Rami Porta, Sergi Call Caja, Carme Obiols Fornell, Mireia Serra Mitjans, Jose Sanz Santos

The prevalence of occult N2/3 NSCLC in tumours with a central location, size larger than 3cm or N1 disease on imaging: a single-centre retrospective study.
Felicity Liew (London, United Kingdom), Katherine Groom, Amy Shearer, Clare Ross, Rudy Sinharay

Detection of lung cancer micrometastases in lymph nodes aspirates by flow cytometry.
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecień, Rafał Sokołowski, Joachim G.J.V Aerts, Joanna Domagała-Kulawik

Deeper into the mediastinum: Topographical distribution and histological patterns of occult pN2 disease in NSCLC patients
Dimitris Lioumpas (Athens, Greece), Periklis Tomos, Stylianos Zaragkas, Dimitrios Fillipou, Nikolaos Tzatzadakis, Thrasyvoulos Michos, Nantia Fili, Ioannis Stamatakis, Christina Balakera, Ilia Samiotis, Konstantinos Bouboulis, Athanasios Kleontas

Experience with Radial endobronchial ultrasound for the diagnosis of bronchoscopically invisible lung lesions in a cancer hospital
Anurag Deshpande (Noida (Uttar Pradesh), India), Jeenam Shah, Ajay Ravi, Rajiv Goyal

Recognition of aberrant promoter methylation for early diagnosis of lung cancer patients
Supriya Karpakth (Lucknow, India), Rajiv Garg, Mohammad Kaleem Ahmad, Sunil Kumar, Anurag Kumar Srivastav, Prashant Mani Tripathi

EBUS-TBNA in Mediastinal Staging of Lung Cancer - Indian Experience
Maheema A. Bhaskar (Mumbai (Maharashtra), India), Pavankumar Birarirs, S Prakash, Sandeep P. Tandon

Evaluation of Primary care access to CT scans for patients suspected Lung Cancer with normal chest x-ray
Amrithraj Bhatta (Manchester, United Kingdom), Anju Mirakhar, Marion Bennie

Stage I lung cancer patients with or without symptoms - are the patients any different?
Heidi Madsen (Århus N, Denmark), Ebbe Bredtoft, Torben Riis Rasmussen

Short Term Multidisciplinary Pulmonary Rehabilitation is Effective In Early Stage Non Small Cell Lung Cancer
Seher Satar (Ankara, Turkey), Ipek Candemir, Pinar Ergun

Pre-congress content  Session 121  00:00 - 23:59

E-poster session: Localised non-small cell lung cancer

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

Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Surgery, Imaging, Pulmonary function testing, Physiology

Chairs: Rudolf M. Huber (Munich, Germany), Adrien Costantini (Paris, France)
Late Breaking Abstract - Effects of bronchoscopic tumor excision on prognosis of lung tumors causing bronchial obstruction
Huseyin Yildiran (Konya, Turkey), Guven Sadi Sunam, Atilla Can

Novel method for bronchial stump coverage for prevents postpneumonectomy bronchopleural fistula: pedicled thymopericardial fat flap, Retrospective analyzes of 98 patients
Kenan Can Ceylan (Izmir, Turkey), Güntüg Bathan, Şeyda Ors Kay

The use of predicted vs actual haemoglobin in the calculation of gas transfer (TLCO) in lung cancer pathways
Giles Dixon (Badminton, United Kingdom), Mark Hardyman, Tasmin Sharley, Andrew Low

Francis-Edouard GRAVIER (Bois-Guillaume, France), Tristan Bonnevie, Fairuz Boujibar, Clément Medrinal, Guillaume Prieur, Yann Combret, Jean-François Muir, Jean-Marc Baste, David Debeaumont, Antoine Cuvelier

Characteristics and survival analysis of synchronous oligometastatic non-small cell lung carcinoma.
Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Teresa Almodôvar, José Duro Da Costa

Quality of life 3 months following lung cancer resection
Morten Borg (Aalborg SV, Denmark), Torben Hansen, Nanna Weigelt, Torben Riis, Anders Lokke

Surveillance imaging and recurrence rates following surgery for non-small cell lung cancer (NSCLC).
Liam Stapleton (Glasgow, United Kingdom), Ahmed Alkarn, John Maclay, Joris Van Der Horst

Comparison of perioperative and early postoperative results of VATS and thoracotomy in patients underwent pneumonectomy
Kenan Can Ceylan (Izmir, Turkey), Güntüg Bathan, Şeyda Ors Kay, Soner Gürsoy

Accuracy of pre-operative staging of non-small cell lung cancer in the West of Scotland
Ahmed Alkarn (Assiut, Egypt), Joris Van Der Horst, John Maclay

Endobronchial Treatment of Benign Endobronchial Neoplasms: in our 10 years of experience
Demet Turan (, Turkey), Mehmet Aklfi Özgül, Ekrem Cengiz Seyhan, Efsun Uğur, Güler Özgül, Erdoğan Çetinkaya

Resected Non-Small Cell Lung Cancer : A 5-year Experience
Ahmed Haque (Gillingham, United Kingdom), Andrea Bille, Kolera Chengappa, Thomas Sanctuary, Vijayakumar Ganesh, Maria Acosta

Psychological distress and long-term recovery in lung resection patients
Janet Rodriguez Torres (Granada, Spain), Maria Granados Santiago, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Ascensión Rodríguez Rodríguez, Vijayakumar Ganesh, Maria Acosta

Clinicopathologic features of patients with non-small cell lung cancer and chronic obstructive pulmonary disease undergoing lung cancer surgery
Sladjana Radosavljevic (Novi Sad, Republic of Serbia), Ilija Andrijevic, Jovan Matijasevic, Dusanka Obradovic, Stojan Krunič, Senka Milutinov Ilic, Aleksandar Bokan

A retrospective analysis of risk factors for Durvalumab related interstitial lung disease after chemoradiotherapy in Stage III NSCLC
Nobuyuki Hirama (Kanagawa, Japan), Masaki Yamamoto, Hiromi Kanaoka, Tatsuya Mauroka, Kouhei Somekawa, Momo Hirata, Tisato Kamimaki, Syuhei Ikeda, Sousuke Kubo, Usio Ryouta, Saki Manabe, Makoto Kudou, Takesi Kaneko

Performance status and body mass index : prognosis impact of their changes in patients with stage III NSCLC
Yasmeen Haddad, Hela Kamoun, Azza Slim, Amal Saidani, Hedia Bellali, Hajer Ben Abdelghaffar, Hanen Smadhi, Dorra Greb, Hassen Hela, Leila Fikh, Med Lamine Megdiche

Instant on-site histological analysis of fresh lung tumor tissue using third and second harmonic generation microscopy
Laura Van Huizen (Amsterdam, Netherlands), Tess Kramer, Danielle Seinstra, Teodora Radonie, Chris Dickhoff, Hans Daniels, Idris Bahce, Peter Bonta, Jouke Annema, Marloes Groot

The efficacy of EBUS-guided cryobiopsy for peripheral pulmonary lesions.
Kei Morikawa (Kawasaki (Kanagawa), Japan), Hirotaka Kida, Hiroshi Handa, Naoki Furuya, Hiroki Nishine, Takeo Inoue, Hisashi Saji, Junko Koike, Masamichi Mineshita

Pre-congress content Session 122 00:00 - 23:59
E-poster session: Molecular alterations and immunology in lung cancer
Disease(s): Thoracic oncology Airway diseases Respiratory critical care
Method(s): Cell and molecular biology General respiratory patient care Pulmonary function testing Surgery


**Chairs:** Wouter H. van Geffen (Leeuwarden, Netherlands), Georgia Hardavella (Athens, Greece)

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**Late Breaking Abstract - The role of the transcription factor PU.1 in lung cancer**  
Katja Hohenberger (Herzogenaurach, Germany), Denis Trufa, Carol Gebbert, Ralf Rieker, Horia Sirbu, Susetta Finotto

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**Late Breaking Abstract - Role of phosphorylated Signal Transducer and Activator of Transcription 5 (pSTAT5) in non-small cell lung cancer (NSCLC)**  
Patrick Tausche (Erlangen, Germany), Denis Trufa, Carol-Immanuel Geppert, Ralf J. Rieker, Horia Sirbu, Susetta Neurath-Finotto

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**Dynamic monitoring of plasma DAMP proteins during various anticancer agents in advanced lung cancer patients**  
Hiroyuki Inoue (Fukuoka, Japan), Hirono Tsutsumi, Yoshimasa Shiraishi, Koji Okamura, Keiichi Ota, Yasuto Yoneshima, Eiji Iwama, Kentaro Tanaka, Isamu Okamoto

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**Germline mutations in young never-smokers with lung adenocarcinoma**  
Wenxin Luo (China), Weimin Li

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**Analysis of the structures and functions of N-glycans of MET**  
Atsushi Saitou (Sapporo, Hokkaido, Japan), Motoko Takahashi, Saori Yokoyama, Naoki Fujitani, Sigeru Ariki, Atsushi Saito, Kouji Kuronuma, Hirohumi Chiba, Hiroki Takahashi

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**Molecular hallmarks of smoking in the Gauting lung adenocarcinoma donors**  
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**Reduction of drug resistance through calcium control in epidermal growth factor receptor tyrosine kinase inhibitor (EGFR TKI) resistant lung cancer cells**  
Sei-hoon Yang (Iksan, Republic of Korea), Mi-Seong Kim, So-Hui Kim, Min-Seuk Kim

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**Relationship between Cancer-associated fibroblast and programmed death ligand 1 expression in non-small cell lung cancer**  
Hiroyasu Kobayashi (Suzuka, Japan), Hiroyasu Kobayashi

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**IMMUNOLOGICAL EVENTS AND SURVIVAL IN LUNG CANCER PATIENTS WITH COPD**  
Jun Tang (China), Xuejie Wang, Liyun Qin, Victor Curull, Merce Mateu-Jiménez, Daniel Ramis-Cabrera, Lara Pijuan, Alberto Rodríguez-Fuster, Rafael Aguilo, Esther Barreiro Portela

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**Molecular profiling of Sq-NSCLC with enhanced FGFR1-4 and MET gene expression - NGS pilot study.**  
Joanna Mose-Sosnowska (Warsaw, Poland), Ewa Szczepulska-Wojcik, Adrianna Rozy, Renata Langfort, Piotr Rudzinski, Tadeusz Orlowski, Monika Skupinska, Delfina Popiel, Maciej Wieczorek, Aleksandra Stanczak, Joanna Chorostowska-Wynimko

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**Biomarkers of lung cancer based on the expression of genes, transposons and repetitive elements**  
Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalo Claros Díaz, Rocio Bautista Moreno

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**EV15 is an oncogene that regulates the proliferation and metastasis of NSCLC cells**  
Tingting Cai (China), Jieqi Zhou, Yang Zhang, Yuanyuan Zeng, Wenwen Du, Ting Liu, Yulong Fu, Jian-An Huang, Jianjie Zhu, Chunhua Ling, Zeyi Liu

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**The genetic expression LG13 (Leucine rich repeat LGI family member 3) among different NSLC cell lines and its effect on proliferation of cancer cells**  
JongWook Shin (Seoul, Republic of Korea), In Won Park, Jae Woo Jung, Jae Chul Choi, Sang-Eun Hyeong, Hye-Young Yun

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**Immunomodulating properties of Fas-L + lung cancer cells identified in lymph nodes aspirates of NSCLC patients**  
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecien, Elżbieta Rutkowska, Rafał Sokolowski, Joanna Domagala-Kulawik

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Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Rafał Sokolowski, Agata Raniszewska, Karina Jahnz-Ryžyk, Piotr Rzepeecki, Joanna Domagala-Kulawik

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**Caspase recruitment domain containing protein 9 suppresses non-small cell lung cancer proliferation and invasion via inhibiting MAPK/p38 pathway**  
Shuilian Zhu (China), Linyue Pan, Haiyan Ge

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**Association between cyclooxygenase inhibitor use and efficacy of immunotherapy: a retrospective study**  
Osamu Kanai (Kyoto, Japan), Kohei Fujita, Misato Okamura, Kanna Horimoto, Masayuki Hashimoto, Koichi Nakatani, Satoru Sawai, Tadashi Mio
**Pre-congress content**

**Session 123**

**E-poster session: Management of chronic lung conditions**

- **Disease(s):** Thoracic oncology, Airway diseases, Sleep and breathing disorders
- **Method(s):** Epidemiology, Public health, Pulmonary function testing
- **Chairs:** Peymane Adab (Birmingham (West Midlands), United Kingdom), Chair to be confirmed

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Level of education and asthma control in adult-onset asthma in Finland and Sweden - A report from the Nordic EpiLung Study
Caroline Stridsman (Luleå, Sweden), Pinja Ilmarinen, Muwada Bashir Awad Bashir, Leena E Tuomisto, Iida Vähätalo, Emma Goksör, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Bo Lundbäck, Bright I Nwaru, Göran Wennergren

Socioeconomic impact of chronic cough in Northern Europe
Össur Ingi Emilsson (Uppsala, Sweden), Henrik Johansson, Ane Johannessen, Mathias Holm, Bertil Forsberg, Vivi Schlünsssen, Rain Jogi, Eva Lindberg, Andrei Malinovschi

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Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Manakov, Elena V. Polyanskaya

Analysis of medical and social factors of TB/HIV in the Siberian Federal District, the city of Novosibirsk and the region
Elena Pushkareva (Novosibirsk, Russian Federation), Tatyana Kolpakova

Characterization of lung function trajectories in the Raine Study
Francesca Sanna (Perth, Australia), Francesca Locatelli, Peter D Sly, Elisha White, Graham L Hall, Rachel E Foong

Bronchial Obstruction goes largely undiagnosed in Italian Elderly: the “Io-Respiro” Project
Isabella Amnesi Maesano (Paris, France), Fernando De Benedetto, Giuseppe Corbo, Marzia Simoni, Maria Rosaria Manigrasso, Stefano Nardini

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Stephen G Noorduyn (Mississauga, Canada), Stephen G Noorduyn, Lawrence Mbuagbaw, Alain Gendron, Michelle L Knutson, Niroshan Sriskandarajah, Jason K Lee

Lung cancer survival in never smokers. Results from the LCRINS study
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Michaela Senek (Sheffield , United Kingdom), Angela Tod, Steven Robertson

Natural course of asymptomatic malignant pleural effusion in non-small-cell lung cancer patients: a multicenter retrospective study
Jung Seop Eom (Busan, Republic of Korea), Ji Yeon Roh, Insu Kim, Hee Yun Seol, Min Ki Lee

Epidermal growth factor receptor (EGFR) gene mutation testing prior to tyrosine kinase inhibitors (TKI) treatment - prospective data from the Czech TULUNG registry
Jana Skricková (Brno 35, Czech Republic), Petra Majková, Magda Bařínová, Monika Bratová, Miloš Pešek, Martin Svatôň, Vítězslav Kolek, Ondřej Fišer, Leona Koubková, Andrea Benejová, Ondrej Venclicek, Markéta Černovská, Libor Havel, Michal Hrnčiarik, Jaromír Roubec, Milada Zemanová, Petr Opáلكa, Jana Krejci, Dan Krejci, Helena Čoupková, Zdeněk Merta

Efficacy and prognostic factors of first-line afatinib treatment for the EGFR-mutated non-small cell lung cancer in the real world
Tzu Hsuan Chiu (Taoyuan, Taiwan), Chi-Hsien Huang, Chih-Hsi Scott Kuo
Treatment sequencing in NSCLC EGFR+ – real-world data
Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso

Clinical and molecular features of V600E and non-V600E BRAF mutations in NSCLC – a retrospective monocentric observational study
caroline phillips (London, United Kingdom), Gesa Rafflenbeul, Torsten Gerriet Blum, Jens Kollmeier, Daniel Misch, Monica Schäfer, Susann Stephan-Falkenau, Anna Streubel, Sebastian Thiel, Thomas Mairinger, Torsten Bauer

Study of current trend of thoracic malignancy in adult patients at a tertiary care center
Darshan Kumar Bajaj (Lucknow (Uttar Pradesh), India), Surya Kant, Richa Tyagi, Jyoti Bajpai, Abhishek Dubey, R A S Kushwaha, Ajay Kumar Verma, K Vignesh, Mona Asnani

Non small cell lung cancer: options and outcome of treatment beyond second line
Tamás Erdélyi (Budapest, Hungary), Andrea Biró, Zsombor Matics, Lilla Koch, Lilla Tamás, Veronika Müller

Pembrolizumab versus nivolumab as second and further line treatment in non-small cell lung cancer; a retrospective single-centre study
Maria Mitsogianni (Athens, Greece), Maria Mitsogianni, Dimitrios Vassos, Ilias Kottes, Vasileios Patriarcheas, Antonios Vassias, Lamprini Stournara, Ioannis Tourkantonis, Dimitra Stefanidou, Andriani Charpidou, Konstantinos Syrigos

Osimertinib as a second-line treatment for EGFR-mutated non-small cell lung cancer: the experience of a Pulmonology department
Daniela Dantas Barreto Rodrigues (Barcelos, Portugal), Catarina Lacerda, Filipa Aguiar, Maria João Araújo, Diana Pimenta, Lurdes Ferreira

Progression after osimertinib in EGFR T790M-mutated non-small cell cancer patients
David Jorge Araújo Barros Coelho (Braga, Portugal), Catarina Sousa, Maria Jacob, Leonor Almeida, David Araújo, Helder Novais-Bastos, Adriana Magalhães, Conceição Souto Moura, Luis Cires, Venceslau Hespanhol, Henrique Queiroga, Gabriela Fernandes

IMPORTANT BENEFITS OF EBUS-TBNA IN ASSESSING PD-L1 EXPRESSION IN NSCLC
Gianna Vargas Centanaro (Madrid, Spain), Elena Forcen, Beatriz Morales, J.L Alvarez-Sala, Myriam Calle, M. Jose Bernabe

Clinical and computed tomography features (CT) of lung adenocarcinoma with epidermal growth factor receptor (EGFR) mutation and anaplastic lymphoma kinase (ALK) status
Rosa Abril Castañón Pérez (Burgos, Spain), Gustavo Gutiérrez Herrero, Haizea Álvarez Martínez, Pablo Lozano Cuesta, Omar Sánchez Martín, María Arias Fuente, Lucía Castillanos Romero, Luis Carlos Rodriguez Pascual

Effectiveness of oral metronomic Vinorelbine versus Docetaxel as second-line treatment in Non-Small Cell Lung Cancer patients in real life
Angeliki Rapti (Lagonisi-Athens, Greece), Asimina Nikolakopoulou, Konstantinos Tzimopoulos, Emily Tsaroucha, Katerina Kavvada

Pre-congress content
Session 125 00:00 - 23:59
E-poster session: Thoracic surgery: lung cancer and infectious disease
Disease(s): Thoracic oncology Pulmonary vascular diseases Airway diseases
Method(s): Surgery Cell and molecular biology General respiratory patient care Respiratory intensive care Physiology Endoscopy and interventional pulmonology Pulmonary function testing Imaging Epidemiology
Chairs: Luca Bertolaccini (Milan, Italy), Paul E. Van Schil (Edegem (Antwerp), Belgium)

lung hydatid cyst from childhood to adulthood
Sarra Ammari (Manouba, Tunisia), Sarra Zairi, Mehdi Abdennadher, Imene Bouassida, Amira Dridi, Taher Mestiri, Hazem Zribi, Adel Marghli

Chest wall hydatidosis: a case series of 26 patients
amina abdelkbir (ben arous, Tunisia), Asma Saad, Bouassida Imen, Hazem Zribi, Sonia Ouerghui, Aida Ayedi, Marghli Adel

Lung hydatid cysts in children: how to manage?
mariem hadj dahmane (ariana , Tunisia), Sarra Zairi, Amira Dridi, Mehdi Abdenadher, Basma Hamdi, Imen Bouassida, Taher Mestiri, Agnes Hamzaoui, Hazem Zribi, Adel Marghli

Place of major resection in treatment of pulmonary hydatid cyst: report of 403 cases.
amina abdelkbir (ben arous, Tunisia), Imen Bouassida, Houcem Messaoudi, Hazem Zribi, Sarra Maazaoui, Maha Touaibia, Ayda Ayedi, Adel Marghli
**1702**  
**Treatment of relapsed hydatid disease of lungs.**  
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Dilyara Mazinova

**1703**  
**When conservative surgery is sufficient in treatment of pulmonary aspergilloma?**  
amina abdelkbir (Ben Arous, Tunisia), Imen Bouassida, Manel Chemakh, Hazem Zribi, Sarra Maazaoui, Mouna Mlika, Tahar Mestiri, Adel Marghli

**1704**  
**Mycobacterial non-tuberculosis infection in patients operated on for pulmonary tuberculosis**  
Vilayat Aliyev (Moscow, Russian Federation), Larisa Lepeha, Elena Krasnikova, Tatiana Smirnova, Svetlana Sadovnikova, Mamad Bagirov

**1705**  
**The surgical treatment of lung bronchiectasis.**  
Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimi

**1706**  
**Solitary Fibrous Tumours (SFTs) of Pleural and Lungs; rare yet challenging from a surgical and clinical aspect**  
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Violetta Lempesi, Panagiotis Demertzis, Nikolaos Anastasiou

**1707**  
**The features of rare pulmonary tumors and their surgical treatment**  
Evgenii Zinchenko (Saint-Petersburg, Russian Federation), Vadim Pischik, Aleksander Kovalenko, Olga Maslak

**1708**  
**Incidence of atrial fibrillation after lung resection surgery and corelation with right atrial strain**  
Sheenam Walia (Chandigarh, India), G D Puri

**1709**  
**Pneumonectomy is an injury or still an effective method of treatment?**  
Kalliopi Athanassiadi (Athens, Greece), Ioannis Alevizakis, Aikaterini Katsandi, Dimitrios Magouliotis, Aikaterini Maragkouti, Konstantina Romana, Niki Giannou, Ioanna Sigala, Konstantinos Antonopoulos, Pantelis Kourgiantakis, Michael Vaslamanatzis, Christina Routsi, Spyridon Zakyntinos

**1710**  
**Correlation of the postoperative complications with the predicted pulmonary function after pneumonectomy in pulmonary tuberculosis patients**  
Larisa Kiryukhina (St. Petersburg, Russian Federation), Nina Denisova, Natalia Nefedova, Sofia Kovaleva, Elena Kokorina, Armen Avetisyan, Evgeny Sokolovich, Pyotr Yablonskii

**1711**  
**Transthoracic closure of bronchopleural fistula following postpneumonectomy with atrial septal defect occluder**  
Zili Meng (Shijiazhuang, China), Jia Meng, Ying Yang

**Pre-congress content**  
**Session 126**  
00:00 - 23:59

**E-poster session: Thoracic surgery: developments in diagnostics and outcomes**

**Disease(s):** Thoracic oncology  
Respiratory critical care  
Airway diseases  
Interstitial lung diseases  
Pulmonary vascular diseases

**Method(s):** Surgery  
Pulmonary function testing  
Endoscopy and interventional pulmonology  
Respiratory intensive care  
General respiratory patient care  
Imaging  
Physiology

**Chairs:** Kalliopi Athanassiadi (Athens, Greece), Stefano Elia (Roma (RM), Italy)

**1712**  
**Late Breaking Abstract - The guillotine technique for artery and bronchus in VATS lobectomy**  
Huseyin Yildiran (Konya, Turkey), Guden Sadi Sunam

**1713**  
**Anterior mediastinal plasty during pneumonectomy as prevention of mediastinal hernia in patients with widespread pulmonary tuberculosis.**  
Elena Krasnikova (Moscow, Russian Federation), Anush Ergeshova, Vilayat Aliyev, Ruslan Tarasov, Mamed Bagirov

**1714**  
**Multidisciplinary approaches in the surgical treatment of cicatrical stenosis of the trachea.**  
Rustem Hayaliev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otabek Eshonkhodjaev

**1715**  
**Is it futile to perform blindly apical wedge resection in primary spontaneous pneumothorax surgery?**  
Cagatay Tezel (Istanbul, Turkey), Mustafa Vayvada, Yelda Tezel

**1716**  
**Thoracic surgery in the elderly**  
Filipa Lemos e Aguiar (Paredes, Portugal), Pedro Fernandes, Miguel Guerra

**1717**  
**Individualized flow controlled ventilation compared to pressure controlled ventilation in one lung ventilation - a prospective, randomized porcine study**  
Patrick Spraider (Innsbruck, Austria), Julia Abram, Manuela Ranalter, Simon Mathis, Gabriel Putzer, Judith Martini

**1718**  
**Pleurectomy/decortication for malignant pleural mesothelioma: a single-centre experience.**  
Lawek Berzenji (Wilrijk, Belgium), Dario Michaux, Suresh Krisan Yogeswaran, Annemie Van Breussegem, Patrick Lauwers, Jo Raskin, Jeroen Hendriks, Jan Van Meerbeeck, Paul Van Schil
1719  Efficacy of lung volume reduction surgery in tracheotomized patients and weaning failure  
Ali Akil (Ibbenbueren, Germany), Stephanie Rehers, Stephan Ziegeler, Mahyar Lavae-Mokhtari, Erik Ernst, Stefan Fischer

1720  Results of surgical treatment of congenital lung malformation in adults: surgical evolution from thoracotomy to video-assisted thoracic surgery  
Güntug Batihan (Izmir, Turkey), Kenan Can Ceylan, Ahmet Üçvet, Soner Gürsoy

1721  Video-assisted thoracic surgery for patients with bronchiectasis  
Güntug Batihan (Izmir, Turkey), Kenan Can Ceylan, Şeyda Ors Kayas, Ozan Usluer, Soner Gürsoy

1722  Feasibility of extracorporeal membrane oxygenation in high-risk thoracic surgery  
taehwa kim, Yun Seong Kim, Eun Jeong Son, Jin Ho Jang, Jinhoang, Jae Heun Chung

1723  Primary tracheal tumors: characteristics and management  
amina Abdelkhir (Ben Arous, Tunisia), Aymen Ben Ayed, Mahdi Abdennader, Mouna Mlika, Amira Dridi, Hazem Zribi, Adel Marghli

1724  Utility of the 3-minute chair rise test (3CRT) to assess cardiopulmonary fitness of patients with non-small cell lung cancer before lung resection.  
Francis-Edouard GRAVIER (Bois-Guillaume, France), Mathilde Azzi, David Debeaumont, Tristan Bonnevie, Bernard Aguilaniu, Damiano Cerasulo, Fairuz Boujibar, Antoine Cuvelier

1725  New era in Oesophageal surgery; the art of combining sweet and sour flavours  
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Theodore Mariolis, Antonios Katsipoulakis, Nikolaos Anastasiou

1726  Could staple-line reinforcement on video-assisted thoracoscopic blebectomy prevent postoperative recurrent pneumothorax?  
Masao Naruke (Tokyo, Japan)

1727  Numbers and Stations: Impact of Examined Lymph Node on Precise Staging and Survival of Radiologically Pure-Solid Non-Small Cell Lung Cancer  
Donghai Chen (Shanghai, China), Chang Chen, Yongbing Chen

1728  Single unit experience in lobectomy for lung malignancy over a period of 2 years from a Tertiary care Respiratory hospital in Sri Lanka  
Dilanka Tilakaratne (Colombo, Sri Lanka), Saman Pradeep, Anusha Kumuduni, Dhananjaya Wanigaratne, Ramani Punchihewa, Eshanth Perera, Dhammike Rasnayake

1729  Prognostic factors in lung cancer: is preoperative Geriatric Nutritional Risk Index an independent predictive factor?  
Beatriz Abascal Bolado (Santander, Spain), Laura Sanchez Moreno, Teresa Diaz De Teran Lopez, Pablo Lozano Cuesta, Victoria Maderuelo Garcia, Claudia Loidi Lopez

1730  Evolution of upper limb exercise capacity from surgery to after one-year lung cancer resection  
Alejandro Heredia Ciuro (Granada, Spain), Andrés Calvache Mateo, Esther Prados Román, Janet Rodriguez Torres, Florencio Quero Valenzuela, Marie Carmen Valenza

1731  Comparison of morphological and densitometric indicators of the inflammatory process activity for substantiation of the optimal terms of surgical treatment in patients with various forms of TB  
Oleksii Denysov (Kyiv, Ukraine), Mykola Gumieniuk, Mykola Lynyak, Galina Gumieniuk, Igor Kalabukha, Eugene Maietryni

Pre-congress content

Session 127  00:00 - 23:59

E-poster session: Prognostic and predictive factors: treatment of lung cancer

Disease(s): Thoracic oncology, Airway diseases

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

Chairs: Joanna Domaga, a-Kulawik (Warszawa, Poland), Dragana M. Jovanovi (Beograd, Republic of Serbia)

The importance of Ki-67 proliferation index in small cell lung cancer  
Seda Beyhan Sagmen (Istanbul, Turkey), Coskun Dogan, Sevda Comert, Nesrin Kiral, Elif Torun Parmaksiz, Ali Fidan, Nagehan Ozdemir Barsik, Sule Karabulut Gul

Downregulation of mir-146a in peripheral blood mononuclear cells as a potential marker of NSCLC  
Esmayil Mortaz (Tehran, Islamic Republic of Iran), Neda K.Dezfuli, Shamila D.Alipur, Neda Dalil Roofchayee, Adnan Khosravi, Babak Salimi, Ian Adcock
A novel serum biomarker of type XXVIII collagen turnover is elevated in lung cancer but not in COPD
Annika Hummersgaard Hansen (Herlev, Denmark), Jannie Marie Bülow Sand, Diana Julie Leeming, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Alexander Lyngne Reese-Petersen, Federica Genovese

Evaluation of serum levels of Sirtuin-1 in lung cancer patients
Hassan Ghobadi-Marallu (Ardabil, Islamic Republic of Iran), Saeid Hosseininia, Aslan Ameli, Farhad Pourfarzi, Mohammad Reza Aslani

Type XIX collagen quantified in serum targeting the anti-tumorigenic NC1 domain is elevated in early and late stage lung carcinoma patients and COPD
Diana Julie Leeming (Herlev, Denmark), Jeppe Thorlacius-Ussing, Jannie M.B. Sand, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Nicholas Villumsen

Role of complement activation product C4d as a predictor biomarker in lung cancer diagnosis: case control study
Luci Suliman (Mansoura, Egypt), Dina Abo Elkhair, Amr Moawad, Heba Shehawy

Response to Immunotherapy in non-small cell lung cancer: the effect of weight
Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Adelaide Alves, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso

Relationship between blood monocyte subsets with activation markers and macrophages in non-small cell lung cancer
Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Małgorzata Polubiec-Kownacka, Piotr Rzepecki, Joanna Domagała-Kulawik

Prognostic value of haematological markers such as neutrophil-lymphocyte ratio (NLR) and platelet-lymphocyte ratio (PLR) in small cell lung cancer.
Mario Aparicio Vicente (Murcia, Spain), Eduardo Garcia Pachón, Sheyla Yolany Ruiz Martinez, Laura Fernández Mula

Prognostic value of neutrophil to lymphocyte ratio in small cell lung cancer
Alia Ezzouaui (Tunis, Tunisia), Hajer Racil, Hager Kchouk, Sarra Maazaout, Sonia Habibech, Aida Ayadi, Naouel Chaouch

Short-term efficacy of advanced NSCLC patients receiving anlotinib hydrochloride as the first and second-line treatment
Ning Chang (Xi’an, China), Yong Zhang, Jian Zhang

Our experience with crizotinib in the treatment of non-small cell lung cancer
Nimet Aksel (Izmir, Turkey), Mine Gayaf, Gulsum Ari, Murat Akyol

Clinical efficacy of 1st line EGFR-TKIs for NSCLC harbouring EGFR mutation with high PD-L1 expression; A single-centered retrospective study
Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Osamu Hataji, Kazuki Furuhashi, Yuta Suzuki, Tadashi Sakaguchi, Kentaro Ito, Kentaro Fujiwara, Yoichi Nishii, Osamu Taguchi, Esteban Cesar Gabazza

Neurological abnormalities and serologic variation with nivolumab: a case of neurosyphilis?
Thomas Flament (Tours Cedex, France), Marion FERREIRA, Frédéric Bastides, Eric Pichon, Fanny Lisée, Sylvain Marchand-Adam, Thomas Flament

Compression therapy using surgical gloves and elastic stockings to prevent chemotherapy induced peripheral neuropathy (CIPN) in advanced non-small cell lung cancer.
Yoko Kida (Kobe, Japan), Rikiya Kouketsu, Toshiyasu Sakurai, Yusuke Inui, Tasuku Matsuoka, Kimihide Tada

Synchronous multiple primary lung cancers manifesting as multiple ground-glass nodules define a special clinical subtype
Wenxin Luo (, China), Wenmin Li

Association between young age and genomic alterations in never-smoker patients with non-small cell lung cancer
Wenxin Luo (, China), Weimin Li

Unique clinicopathological characteristics and favorable prognosis of young patients with non-small cell lung cancer
Wenxin Luo (, China), Weimin Li

Survival after intrapleural catheter (IPC) insertion for malignant pleural effusion (MPE): a retrospective audit of prognostic scoring tools in patients with MPE treated with an IPC in a district general hospital.
Erfanur Rahman Shuvo (COLCHESTER, United Kingdom), Frederick Jarvis, Rachel Lee, Lisa Wright, Rekha Badiger, Peter Hawkins

Tunneled indwelling pleural catheters inserted post thoracoscopy
Philip Evans (Carmarthen, United Kingdom), Emma Shiels, Alina Ionescu
**Session 128**

**E-poster session: Biological mechanisms of lung cancer**

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

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

**Chairs:** Sam Janes (London, United Kingdom), Armin Frille (Leipzig, Germany)

**Correlation of programmed death-ligand 1 (PD-L1) expression in lung cancer between endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) samples and histological specimens.**

Virginia Guevara Velazquez (Salamanca, Spain), Rosa Cordovilla Pérez, Carmen Parra, Marta Rodríguez González, Lorena Bellido, Ruth García García, Marco López Zubizarreta, Soraya Jodra Sánchez, Miguel Ángel Hernández Mezquita

**KPNB1-mediated PD-L1 nuclear translocation promotes non-small cell lung cancer cell proliferation via the Gas6/MerTK signalling pathway.**

Wenwen Du (China), Jianjie Zhu, Yuanyuan Zeng, Yang Zhang, Zeyi Liu, Jian-An Huang

**NEUROD1 is highly expressed in extensive disease small lung cancer by promoting migration.**

Kentaro Tanaka (Fukuoka, Japan), Yuki Ikematsu, Kayo Iijichi, Yasuto Yonemishita, Hiroyuki Inoue, Tetsuzo Tagawa, Yoichi Nakanishi, Isamu Okamoto

**Alpha1-antitrypsin inhibits staurosporine-induced apoptosis of NSCLC cells.**

Sabine Wrenger (Hannover, Germany), Natalie Schwarz, Srinu Tumpara, Evrim Ercecin, Tobias Welte, Sabina Janciauskiene

**Genetic polymorphisms of renin-angiotensin system and angiogenic factors in NSCLC progression: discovery and validation studies.**

Maria Joana Pereira Catarata (Porto, Portugal), Ricardo Ribeiro, Alice Pégo, Carlos Robalo Cordeiro, Maria José Oliveira, Rui Medeiros, Michael Thomas, Michael Meister, Thomas Muley

**ASCL1 suppress ZFP36L1 expression by regulating miR124-3p expression in lung adenocarcinoma.**

Takayoshi Enokido (Tokyo, Japan), Naoya Miyashita, Masafumi Horie, Akira Saito, Takahide Nagase

**The Role of TGF-B in Lung Cancer Development in COPD Patients.**

Hatice Çelik Tuğlu (ISPARTA, Turkey), Önder Özturk, Pınar Aslan Koşar, Ahmet Akkaya

**Causal RNA signatures in lung adenocarcinoma.**

Georgia Giotopoulou (Munich, Germany), Mario Pepe, Sabine Behrend, Giannoula Ntiardi, Anne-Sophie Lamort, Ioannis Lillis, Magda Spella, Georgios Statopoulos

**Association between H-RAS T81C genetic polymorphism with non-small cell Lung cancer.**

Chuen-Ming Shih (Taichung, Taiwan), Yao-Ling Lee

**SNP Rs11614913 in miR-196a is a risk factor for non-small cell lung cancer in Iranians.**

Neda K. Dezfuli (Tehran, Islamic Republic of Iran), Shamila D. Alipour, Sharareh Seyfi, Neda Dalil Roofchayee, Ian M. Adcock, Esmaeil Mortaz

**The upregulation of Osteopontin mediates acquired resistance to EGFR-TKI in NSCLC through integrin/FAK signaling.**

Yulong Fu (China), Yang Zhang, Zeyi Liu, Jian-An Huang

**Influence of smoking on gene expression in lung adenocarcinoma.**

Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalez Claros Díaz, Rocio Bautista Moreno

**Cocultured brown or white adipocytes can reduce efficacy of targeted therapy in lung cancer cells.**

Armin Frille (Leipzig, Germany), Hartmut Kuhn, Claudia Hänel, Thomas Ebert, Hans-Jürgen Seyfarth, Hubert Wirtz

**Evaluate soluble PD-L1 in plasma in advanced stage non-small cell lung cancer patients.**

Nhung Pham Thi Kim (Hanoi, Vietnam), Quyet Do, Thang Ta, Dung Nguyen, Dai Do

**Triptolide enhances radiosensitivity of lung cancer cells via G2/M arrest and autophagy.**

Seung Hyeun Lee (Seoul, Republic of Korea), Jeong mi Lee, Myung Jae Park

**Identification of PD-L2 on macrophages in lung cancer milieu: pilot study.**

Iwona Kwiecięń (Warszawa, Poland), Elżbieta Rutkowska, Małgorzata Polubiec-Kownacka, Piotr Rzepecki, Joanna Domagała-Kulawik
Neprilysin functional genetic polymorphism in NSCLC progression without PD-L1 expression  
Maria Joana Pereira Catarata (Porto, Portugal), Ricardo Ribeiro, Maria José Oliveira, Michael Thomas, Michael Meister, Thomas Muley

Lung Microbiota and Streptococcal enrichment in Central Lung Cancer  
Jose Javier Vengoechea (Zaragoza, Spain), Manuel Ponce-Alonso, Ana Lucía Figueredo, Elisa Mincholé, Rosa Del Campo, Salvador Bello

Lung Micobiome in Lung Cancer  
Jose Javier Vengoechea (Zaragoza, Spain), Manuel Ponce-Alonso, Ana Lucía Figueredo, Elisa Mincholé, Rosa Del Campo, Salvador Bello

Pre-congress content  
Session 129  
00:00 - 23:59

E-poster session: Cardiovascular and pulmonary complications of respiratory infections

Disease(s): Respiratory critical care, Airway diseases

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

Chairs: Grant Waterer (Perth (WA), Australia), Martin Kolditz (Dresden, Germany)

Results of vaccination against pneumococcal infection in patients with chronic heart failure  
Angelina Kraposhina (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva, Elena Sobko

Incidence of Cardiac Complications after Hospitalisation for Community Acquired Pneumonia: A Large Population-based Cohort Study  
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Tricia Mckeever, Wei Shen Lim

Comunity acquired legionella pneumonia: cardiovascular events and survival  
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Ainhoa Gomez Bonilla, Marta Garcia Moyano, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz Gomez Crespo, Borja Ortiz De Urbina Antia, Amaia Urrutia Gajate, Rafael Zalacain Jorge

Endothelial dysfunction and its corrections in patients with severe community-acquired pneumonia (CAP)  
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Tetiana Kinieleva, Tetyana Pertseva

Community acquired pneumonia: an increased risk for subsequent cardiovascular events?  
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloisa Silva, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro

Acute Pneumonia and PSI: is it possible to prevent a cardiovasculat event?  
Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain), Javier Poyo Molina, Irene Juanes Dominguez, Maria Begoña Lahidaliga Mugica, Maria Concepcion Bello Mora, Angel Maria Alonso Gomez, Lucas Tojal Sierra, José Luis Lobo Beristain

Differences in prognosis and outcome in patients with pneumococcal pneumonia and new onset atrial arrhythmia: impact of the time and duration of the arrhythmia  
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Lorea Martinez-Indart, Ainhoa Gomez Bonilla, Amaia Artaraz Erefo, Joseba Andia Iturrate, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

M eta-analysis of Acute Coronary Syndrome in Patients with Community-Acquired Pneumonia  
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Shauntelle Quammie, Hannah Lawrence, Deborah Ashton, Wei Shen Lim, Tricia Mckeever

Relation between respiratory diseases and the development of cardiovascular events in patients with respiratory viral infection  
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Esteban-Lucía, Ainhoa Izquierdo Pérez, Luis Nieto Roca, Ana María Venegas Rodríguez, Camila Sofía García Talavera, Ana María Pello Lázaro, Alvaro Aceña Navarro, Felipe Villar Alvarez

Mean platelet volume changes in patients with nosocomial pneumonia.  
Vladimir Volchkov (St. Petersburg, Russian Federation), Anastasya Vasilytsina, Vyacheslav Afonchikov, Elizaveta Volchkova, Dmitry Larin

Active monitoring of adverse drug reactions to the use of beta-lactam antibiotics in the treatment of community-acquired pneumonia  
Angelina Kraposhina (Krasnoyarsk (Krasnoyarsk), Russian Federation), Ekaterina Sergeevna Torgunakova, Elena Nikolaevna Bochanova, Irina Vladimirovna Demko, Evgeniya Mikhailovna Kerts
Infectious COPD exacerbations and value of chest radiography
Yael González (Buenos Aires, Argentina), Fernando Di Tulio, Glenda Ernst, Martin Bosio, Eduardo Borsini, Alejandro Salvado, Josefa Pascua, Pablo Oyhamburu, Gabriela Robaina

Comparative prospective cohort study of the efficacy and safety according to dose of Ceftriaxone in community-acquired pneumonia
Yosuke Nakanishi (Kurashiki, Japan), Akihiro Ito, Hiromasa Tachibana, Tadashi Ishida, Miho Mitsui

Clinical features and antimicrobial resistance pattern of patients with CAP caused by K. pneumoniae in Jakarta, Indonesia
Gina Amanda (Jakarta Timur, Indonesia), Dianati Kusumo Sutoyo, Erlina Burhan, Budi Haryanto, Wisnu Tafroji, Dodi Safari

Therapeutic failure among incident users of β-lactam antibiotics: a real-world, cohort study, in primary care in Italy
Ettore Marconi (firenze, Italy), Alessandro Rossi, Claudio Cricelli, Francesco Lapi

New prediction score without subjective parameters for community-acquired Legionella pneumonia
Shinya Yokoe (Kurashiki-city, Japan), Akihiro Ito, Hiromasa Tachibana, Miho Mitsui, Yosuke Nakanishi, Tadashi Ishida

Use of corticosteroids in patients with severe CAP admitted to ICU, experience in a real-life setting.
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Pier Luigi Di Giannatale, Enric Barbeta, Stefano Nogas, Patricia Oscanoa, Albert Gabarras, Miqael Ferrer, Antoni Torres

Novel Pseudomonas aeruginosa scoring system to guide empiric anti-pseudomonal therapy in COPD patients with community-acquired pneumonia

Pre-congress content

E-poster session: What is hot in idiopathic pulmonary fibrosis?

Disease(s): General respiratory patient care Public health Imaging Epidemiology Pulmonary function testing

Method(s):

- Effects of nintedanib in patients with IPF: subgroup analysis by Charlson Comorbidity Index (CC1)
  Elisabeth Bendstrup (Veje, Denmark), Francesco Bonella, Elena Bargagli, Fabian Caro, Marilyn Glassberg, Birgit Schinzel, Manuel Quaresma, Leticia Orsatti, Ian Glaspole

- Hiatus hernia and interstitial lung abnormalities
  Peter George (London, United Kingdom), Tomoyuki Hida, Rachel Putman, Sujal Desai, Anand Devaraj, Sacheen Kumar, John Mackintosh, Vilmundur Gudmundsson, Hiroto Hatabu, Gunnar Gudmundsson, Gary Hunninghake

- The effect of metformin on clinically relevant outcomes in 3,144 IPF patients from the EMPIRE registry
  Dragana M. Jovanović (Beograd, Republic of Serbia), Martina Šterclová, Nesrin Mogulkoc, Katarzyna Lewandowsk, Veronika Müller, Marta Hájková, Mordechai Kramer, Jasna Tekavec-Trikanjec, Michael Studnicka, Natalia Stoever, Biserka Jovovska Kaeva, Simona Littnerová, Marina Roksandić Milenković, Martina Vasakova

- Clinical value of cluster analysis of unclassifiable idiopathic interstitial pneumonias phenotypes
  Yutaro Nakamura (Hamamatsu, Japan), Tae Iwasawa, Shoichiro Matsushita, Yasuhiro Terasaki, Shinobu Kunugi, Hideya Kitamura, Kazutaka Mori, Hideki Yasui, Tomoyuki Fujisawa, TakaTsumi Suda

- Early decrease in erector spinae muscle area and future risk of mortality in idiopathic pulmonary fibrosis
  Akiko Nakano, Hirotsugu Ohkubo, Hiroyuki Taniguchi, Yasuhiro Terasaki, Shinobu Kunugi, Hideya Kitamura, Kazutaka Mori, Hideki Yasui, Tomoyuki Fujisawa, Takafumi Suda

- The primary results from the STARLINER study of disease behaviour in suspected ILD
  Marlies S Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup, Claudia Valenzuela, Michael T. Henry, Catharina Moor, Stéphane Jouneau, Alessandro Fois, Onofre Moran, Syed Anees, Mirela Mirt, Monica Bengus, Frank Gilberg, Klaus-Uwe Kirchgassena, Carlo Vancheri

- Reliability of home spirometry in idiopathic pulmonary fibrosis
  Catharina Moor (Rotterdam, Netherlands), Rémy Mostard, Jan Grutters, Paul Bresser, Joachim Aerts, Niels Chavannes, Marlies Wijsenbeek

- Mapping IPF helps identify geographic regions at higher risk for disease development
  Jessica Shull (Sitges, Spain), Oriol Jorba, Carla Lara, Miriam Olid, Maria Teresa Pay, Guadalupe Bermudo, Guillermo Suarez Curatin, Vanesa Vicens, Lurdes Planas, Jaume Bordas, Pilar Rivera Ortega, Maria Molina Molina, Crampid Group
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<td>1798</td>
<td>Eligibility for anti-fibrotic therapy of patients in British Thoracic Society (BTS) UK IPF Registry varies according to the reference values used to calculate FVC</td>
<td>Phil Molyneaux, Maria Loughenbury, Sally Welham, John Hutchinson, Huzaifa Adamali, Ahmed Fahim, Sarah Agnew, Wendy Funston, Sarah Haney, Ling-Pei Ho, Jack Richardson, Howard Almond, Steve Jones, Lisa Nicol, Katherine Spinks, Andrew Wilson, Lisa Spencer</td>
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<td>1799</td>
<td>Quantitative CT for the assessment of disease severity in interstitial lung disease</td>
<td>David G. Parr, Emma Helm, Joanna Shakespeare, Abhir Bhalerao</td>
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<td>1800</td>
<td>The value of the surprise question to predict mortality in idiopathic pulmonary fibrosis</td>
<td>Nelleke Tak, Catharina Moor, Catherine Owusuaa, C. Van Der Rijt, Marlies Wijsenbeek</td>
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<td>1801</td>
<td>Prevalence and characteristics of patients with idiopathic pulmonary fibrosis admitted for pneumonia acquired in the community.</td>
<td>Irene Milagros Dominguez Zabaleta, Javier De Miguel Diez, Virginia Parra Leon, Zichen Ji, Ana Lopez De Andres, Valentin Hernandez Barrera, Alicia Cerezo Lajas, Luis Puente Maestu, Rodrigo Jimenez Garcia</td>
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<td>1802</td>
<td>Pirfenidone in unclassifiable ILD (uILD): subgroup analysis of patients with/without a surgical lung biopsy (SLB)</td>
<td>Vincent Cottin, Tamera J. Corte, Michael Kreuter, Maria Molina-Molina, Judit Axmann, Frank Gilberg, Klaus-Uwe Kirchgaessler, Toby M. Maher</td>
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<td>1803</td>
<td>Dynamics of diagnoses and pharmacotherapy before and after diagnosing idiopathic pulmonary fibrosis</td>
<td>Jesper Romhild Davidsen, Lars Christian Lund, Christian B. Laursen, Jesper Hallas, Daniel Pilsgaard Henriksen</td>
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**Pre-congress content**

**Session 131**

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<td>00:00 - 23:59</td>
<td>E-poster session: Natural history and management of interstitial lung diseases of known cause</td>
<td>Intersstitial lung diseases, Thoracic oncology, Pulmonary vascular diseases</td>
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<td></td>
<td>Method(s):</td>
<td>Imaging, General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Surgery, Public health, Pulmonary rehabilitation, Endoscopy and interventional pulmonology, Epidemiology, Physiology</td>
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<td>Chairs:</td>
<td>Peter Saunders (London, United Kingdom), Donato Lacedonia (Molfetta (BA), Italy)</td>
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<td>1805</td>
<td>Hypersensitivity pneumonitis in an Interstitial Lung Disease Unit, 5 years’ experience</td>
<td>Amaia Urrutia Gajate, Alejandro Rezola Carasusan, Borja Ortiz De Urbina, Marta Garcia Moyano, Rafael Zalacain Jorge, Luis Alberto Ruiz Iturriaga, Leire Serrano Fernandez, Carmen Jaca Michelena, Beatriz Gomez Crespo</td>
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<td>1806</td>
<td>Chest Imaging Abnormalities in Patients with Uncontrolled Rheumatoid Arthritis Prior to Biological Therapy Initiation</td>
<td>Amelia Benjamin (London, United Kingdom), Katie Ward</td>
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<td>1807</td>
<td>Clinico-radiological profile of connective tissue diseases related interstitial lung diseases</td>
<td>Mehul Agarwal (Ajmer, India), Manohar Lal Gupta, Neha Bharti, Gopal Chawla</td>
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<td>1808</td>
<td>Use of mycophenolate mofetil for the treatment of hypersensitivity pneumonitis</td>
<td>Eduardo Antonio Velez Segovia, Xavier Vidal Guitart, Ana Villar Gomez</td>
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<td>1809</td>
<td>The prediction of risk factors of tyrosine kinase inhibitor-induced pneumonitis in non-small cell lung cancer</td>
<td>Hyo Jae Kang (Goyang, Republic of Korea)</td>
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CARACTERISTICS OF A PROSPECTIVE COHORT OF PATIENTS WITH IPAF (INTERSTITIAL PNEUMONIA WITH AUTOIMMUNE FEATURES) BY NEUMOLOGISTS AND REUMATOLOGISTS OF MADRID. IPAF-NEREM STUDY
Mª Asuncion Nieto Barbero (Madrid, Spain), Cristina Vadillo Font, Mª Jesús Rodríguez-Nieto, Olga Sánchez Pernaute, Fredeswinda Isabel Romero Bueno, Rosalía Laporta Hernández, Belén López Muñiz Ballesteros, Laura Cebrián Martínez, Mª Teresa Rio Martinez, Gemma María Mora Ortega, Tatiana Cobo Ibáñez, Lydia Abásolo Alcazar

Relationship between horizontal adductor muscles strength and pulmonary functions in idiopathic pulmonary fibrosis
Habibe Durdu (İstanbul, Turkey), S. Ufuk Yurdalan, İpek Özmen

Telemetric observation of the course and treatment effects of selected interstitial lung diseases associated with connective tissue diseases (CTD-ILD) - protocol presentation
Sylwia Malysiak-Szpond (Warszawa, Poland), Maria Mozga, Joanna Milkowska - Dymanowska, Adam J. Białas, Wojciech J. Piotrowski

King’s Brief Interstitial Lung Disease (K-BILD) questionnaire: content relevance in progressive fibrosing ILD (PF-ILD)
Surinder S. Birring (London, United Kingdom), Donald M. Bushnell, Katelyn Cutts, Michael Baldwin, Klaus B. Rohr, Natalia Male

Utility of Lung Ultrasound in Interstitial Lung Disease - A Paradigm Shift
Gopal Chawla (New Delhi (Delhi), India), Naveen Dutt, Nishant Chauhan, Ram Niwas, Sandip Agarwal, Priyank Jain, Mehul Agarwal

Impact of mycophenolate mofetil on lung function in chronic hypersensitivity pneumonitis and connective tissue disease related-ILD
Eduarda Salomé Soares Seixas (Lourosa, Portugal), Paula Serra, Renata Aguiar, Margarida Ferreira, Pedro Gonçalo Ferreira

Exploring barriers to Pirfenidone adherence in patients with idiopathic pulmonary fibrosis: a prospective study
Surinder S. Birring (London, United Kingdom), Katelyn Cutts, Michael Baldwin, Klaus B. Rohr, Natalia Male

Use of Rituximab in the treatment of CTD-ILD in RA patients.
Francesco Bini (Pavia (PV), Italy), Dina Visca, Angelo De Lauretis, Bruno Bodini, Daniele Colombo, Paola Faverio, Adriano Vaghi

Title: Video Assisted Thoracopy Surgery(VATS) in unidentified Interstitial Lung disease: a six year retrospective study in India
Apar Agarwal (Meerut, India), Ajay Lall

Risk factors of transbronchial cryobiopsy complications: A Retrospective Study of 500 Patients
Katsuyuki Higa (kiyose, Japan), Takashi Niwa, Midori Sato, Yozo Sato, Akimasa Sekine, Hideya Kitamura, Tomohisa Baba, Tae Iwasawa, Tamiko Takemura, Takashi Ogura

Pre-congress content Session 132 00:00 - 23:59
E-poster session: Comprehensive care and pulmonary rehabilitation for chronic respiratory diseases

Disease(s):
- Sleep and breathing disorders
- Airway diseases
- Pulmonary vascular diseases
- Thoracic oncology
- Respiratory critical care

Method(s):
- General respiratory patient care
- Epidemiology
- Pulmonary rehabilitation
- Pulmonary function testing
- Transplantation
- Palliative care

Chairs:
- Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Afroditi Boutou (Thessaloniki, Greece)

Long-term noninvasive ventilation: do patients aged over 75 years differ from younger adults?
Chloé Cantero (Genève, Switzerland), Dan Adler, Patrick Pasquina, Christophe Uldry, Bernard Egger, Maura Prella, Alain Bigin Younossian, Paola Gasche, Jean-Louis Pépin, Jean-Paul Janssens

Early pulmonary rehabilitation increases 6MWD and reduces CRP in hospitalized patients with severe AECOPD
Lan-Fang TUNG (Taipei, Taiwan), Sheng-Yeh Shen, Yan-Ting Chen, Hui-Hsuan Shih, Jia-De Yan, Shu-Chuan Ho

Changes in SPPB during hospital admission for AECOPD
Hamish Mcauley (Leicester, United Kingdom), Michelle Craner, Bharti Patel, Michael Steiner, Neil Greening

The effect of pulmonary rehabilitation during chest radiotherapy in patients with malignancy
Myeong Geun Choi (Seoul, Republic of Korea), Sei Won Lee
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<td>1824</td>
<td><strong>Sexuality in Chronic Obstructive Pulmonary Disease (SEXY COPD)</strong></td>
<td>Claudia Steurer-Stey (Zürich, Switzerland), Alexandra Strassmann, Kaba Dalla Lana, Johann Gauer, Anja Frei, Milo Puhan</td>
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<td>1825</td>
<td><strong>User experiences and perceived effectiveness of an eHealth self-management intervention in COPD patients with heart failure</strong></td>
<td>Anke Lenferink (Oldenzaal, Netherlands), Joanne Sloots, Arien Blom, Paul Van Der Valk, Tanja Effing, Job Van Der Palen, Constance Drossaert</td>
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<td>1826</td>
<td><strong>Effectiveness of inspiratory plus expiratory neuromuscular electrical stimulation in the rehabilitation of patients with severe COPD</strong></td>
<td>Zhiling Zhao (Beijing, China), Xiaojuan Wang, Wuzhuang Sun, Xiaoyun Zhao, Yangxiang Lin, Shu Zhang, Zhaohui Tong</td>
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<td>1827</td>
<td><strong>Pulmonary rehabilitation and cognitive impairment in COPD patients.</strong></td>
<td>Sara Ramponi (Cingia de’ Botti (CR), Italy), Maurizio Marvisi, Alberto Baiguera, Andrea Romani, Laura Balzarini, Roberta Baronio, Silvia Faverzani, Chiara Mancini</td>
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<td>1828</td>
<td><strong>Efficacy of Occupational Therapy in patients with COPD</strong></td>
<td>Alex J Van ‘t Hul (Bavel, Netherlands), Noortje Koonen, Martijn Spruit, Elienke Nijhuis, Marianne De Man, Jeanine Antons, Nienie Nakken, Daisy Janssen</td>
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<td>1829</td>
<td><strong>The impact of silver ions on decrease in sputum viscosity among the patients with asthma</strong></td>
<td>Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Elena Bogdanova, Alexander Emelyanov, Anatoliy Feysun, Andrei Rachin, Gleb Basarshikov, Anfisa Nikitina, Andrei Popov</td>
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<td>1830</td>
<td><strong>The five-repetition sit-to-stand test (5STS) in patients with bronchiectasis: validity and responsiveness</strong></td>
<td>Suhani Patel (London, United Kingdom), Ruth Barker, Jessica Walsh, Oliver Polgar, Claire Nolan, William Man</td>
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<td>1831</td>
<td><strong>Complex need of care in patients with chronic respiratory failure starting home mechanical ventilation</strong></td>
<td>Roy T.M. Sprooten (Cadier en Keer, Netherlands), Bettine A.H. Vosse, Sander C.M. Steyns, Marijke Rutten, Nicolle A.M. Cobben, Geertjan Wesseling</td>
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<td>1832</td>
<td><strong>Effect of the trajectory of exertional breathlessness on symptom recall and prediction: a randomized controlled trial</strong></td>
<td>Magnus Ekström (Lyckeb, Sweden), Viktor Elmberg</td>
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<td>1833</td>
<td><strong>Safety and efficacy of home-based pulmonary rehabilitation in patients with pulmonary hypertension: Feasibility study of 12 cases</strong></td>
<td>Takeshi Inagaki (Chiba, Japan), Jiro Terada, Nobuhiro Tanabe, Naoko Kawata, Hajime Kasai, Toshihiko Sugiyura, Ayako Shigeta, Atsushi Murata, Koichi Takumi</td>
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<td>1834</td>
<td><strong>Dance for people with chronic respiratory disease: A qualitative study</strong></td>
<td>Keir Philip (London, United Kingdom), Adam Lewis, Siân Williams, Sara Buttery, Michael Polkey, William Man, Daisy Fancourt, Nicholas Hopkins</td>
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<td>1835</td>
<td><strong>Diaphragm excursion was correlated with respiratory muscle strength and FEV1 in home-based respiratory muscle training with COPD patients</strong></td>
<td>Hsun-Yun Chang (Taoyuan, Taiwan), Han-Pin Kuo, Pai-Chien Chou, Mei-Chuan Chen, Shu-Chuan Ho</td>
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<td>1836</td>
<td><strong>SKLELETAL MUSCLE DYSFUNCTION AND BODY COMPOSITION ALTERATIONS IN NON-CYSTIC FIBROSIS BRONCHIECTASIS PATIENTS: GENDER DIFFERENCES</strong></td>
<td>Xuejie Wang (Barcelona, Spain), Ana Balahá Corberó, Juana Martínez Llorens, Liyun Qin, Mireia Admetlló, Esmeralda Hernández Leal, Xavier Duran, Antonio Sancho Muñoz, Esther Barreiro Portela</td>
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<td>1837</td>
<td><strong>COPD - what patients know about their disease and which of them require special attention</strong></td>
<td>Małgorzata Farnik (Katowice, Poland), Marzena Trzaska - Sobeckaz</td>
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<td>1838</td>
<td><strong>Sit-to-stand test and 6-min walking test correlation in pulmonary rehabilitation patients</strong></td>
<td>Ziva Zdošek Sluga (Laško, Slovenia), Tomaž Hafner</td>
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**Pre-congress content**

**Session 133**  
00:00 - 23:59

**E-poster session: Real life in the field of idiopathic pulmonary fibrosis: treatments and registries**

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

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

**Chairs:** Claudia Ravaglia (Forlì, Italy), Yasuhiro Kondoh (Seto (Aichi), Japan)

**Characteristics and clinical management of IPF patients in Spain: prospective, observational, multicentric study (OASIS study).**

Ana Dolores Romero Ortiz (Granada, Spain), María Jesús Rodríguez-Nieto, Ana Villar, Esteban Cano-Jiménez, Alba Ramón, Silvia Armengol, Elena Alhaja, Maite Artés
Cluster analysis and survival in patients with idiopathic pulmonary fibrosis
Dimitrios Kalafatis (Stockholm, Sweden), Lisa Carlson, Jing Gao, Chuan Xing Li, Ida Pesonen, Carl Magnus Sköld

Acute exacerbation of IPF - Experience of a Portuguese RICU
Joana Rodrigues Barbosa (Lisboa, Portugal), Sara Salgado, Paula Esteves, Cristina Bárbara

Russian IPF Registry: time of inclusion impacts patients' status
Svetlana Yu. Chikina (Moscow, Russian Federation), Sergey Avdeev, Igor Tyurin, Alexander Cherniak, Zamira Merzhoeva

Baseline characteristics and survival of patients with idiopathic pulmonary fibrosis (IPF): analysis from the Swedish IPF registry
Jing Gao (Stockholm, Sweden), Dimitrios Kalafatis, Lisa Carlson, Chuan-Xing Li, Ida Pesonen, Magnus Sköld

Prevalence of idiopathic pulmonary fibrosis in Japan and the US: a claims-based retrospective study
Yasuhiro Kondoh (Seto (Aichi), Japan), Takafulmi Suda, Yoshie Hongo, Manami Yoshida, Shinzo Hiroi, Kosuke Iwasaki, Tomomi Takeshima, Sakae Homma

Long-term outcomes of antifibrotic treatments in patients with idiopathic pulmonary fibrosis: Real-world experience
Sibel Nayci (Mersin, Turkey), Demet Polat, Eylem Sercan Ozgur, Cengiz Ozge

Factors influencing best tolerated dose of pirfenidone (PFD) in patients with IPF
Neha Agrawal Mandovra (Indore (Madihya Pradesh), India), Preyas Vaidya, Ria Shah, Vinod Chavhan, Joerg Leuppi, Anne Leuppi-Taegtemeyer, Prashant Chhajed

Safety and Tolerability of Combination Therapy with Nintedanib and Pirfenidone for Idiopathic Pulmonary Fibrosis: A Multicenter, Retrospective, Observational Study in Japan
shu hisata (Sendai, Japan), Masashi Bando, Sakae Homma, Kensaue Kataoka, Takashi Ogura, Shinyu Izumi, Susumu Sakamoto, Yoshinobu Saito, Kizuku Watanabe, Yasuo Shimizu, Motoyaus Kato, Naohiko Inase

Efficacy of low dose pirfenidone in idiopathic pulmonary fibrosis: Real world experiencefrom a tertiary university hospital
Song Yee Kim (Seoul, Republic of Korea), Juhye Shin, Myung Jin Song, Moo Suk Park, Young Ae Kang

Assessing the effectiveness of pirfenidone in changing the natural course of idiopathic pulmonary fibrosis: the data from European IPF Registry (eurIPFreg).
Ekaterina Krauss (Giessen, Germany), Silke Tello, Ruth C. Dartsch, Martina Korfei, Poornima Mahavadi, Mark Stoehr, Jochen Wilhelm, Raphael Majeed, Philippe Bonniaud, Carlo Vanderchi, Athol U. Wells, Werner Seeger, Bruno Crestani, Andreas Guenther

Impact of tidal volume, GAP index and anti-fibrotic treatment on disease progression and mortality in IPF patients
Ekaterina Krauss (Giessen, Germany), Brahim Ait Ilalne, Christine Knittel, Jochen Wilhelm, Ruth C. Dartsch, Silke Tello, Poornima Mahavadi, Martina Korfei, Werner Seeger, Bruno Crestani, Andreas Guenther

Prevalence and Characteristics of Patients Receiving Antifibrotic Therapy for Idiopathic Pulmonary Fibrosis
Ying Qiu (United States of America), Ying Qiu, Rui Zhi Zhao, Brandon Elpers, Yuexi Wang, Lin Xie, Jackson Tang, Aryeh Fischer

Antithrombotics in idiopathic pulmonary fibrosis patients with concomitant antifibrotic therapy: a single centre real world experience
Anna Agnese Stanziola (Napoli (NA), Italy), Danilo Pentangelo, Rossella D'Angelo, Ludovica Capitelli, Roberto Rega, Maria Isola Bocchino, Umberto Malapelle

Characteristics and management of patients with idiopathic pulmonary fibrosis treated with pirfenidone capsule or tablet formulation
Vincent Cottin (Lyon, France), Sonia Guéguen, Stéphane Jouneau, Hilario Nunes, Bruno Crestani, Philippe Bonniaud, Lidwine Wemeau, Dominique Israel-Biet, Marie Chevereau, Isabelle Dufaure-Garé, Serge Amselem, Annick Clément

Association between antifibrotic medications and pneumothorax or pneumomediastinum in patients with idiopathic pulmonary fibrosis
Taisuke Akamatsu (Shizuoka, Japan), Hiromasa Nakayasu, Kanami Tamura, Toshihiro Masuda, Shingo Takahashi, Yoko Tanaka, Hirofumi Watanabe, Yutaro Kishimoto, Kyohei Oishi, Mika Saigusa, Akito Yamamoto, Satoru Morita, Kazuhiro Asada, Toshihiro Shirai

Nintedanib in IPF: post hoc analysis of the Italian FIBRONET observational study
Venerino Poletti (Forli, Italy), Carlo Albera, Sergio Harari, Alberto Pesci, Alessandra Ori, Giovanna Crespi, Benedetta Campolo, Carlo Vancheri

Results of antifibrotic drugs in the treatment of idiopathic pulmonary fibrosis. A real life study.
Jacinto Hernandez Borge (Badajoz, Spain), Ana Castañar Jover, Luis Miguel Sierra Murillo, Pilar Iñigo Naranjo, Santiago Hernández Gómez, Amparo Sanz Cabrera
1857 **GAP scoring system in IPF patients treated with antifibrotics: prognostic performance and 1- to 3- years mortality: a retrospective study**
Laurens De Sadeleer (Leuven, Belgium), Tinne Goos, Jonas Yserbyt, Stijn E Verleden, Wim A Wuyts

1858 **Characterize Idiopathic Pulmonary Fibrosis using Respiratory Oscillometry**
Joyce Wu (Richmond Hill, Canada), Anastasiia Vasileva, Ehren Chang, Jin Ma, Qian Huang, Antonio Cassano, Matthew Binnie, Shane Shapera, Jolene H. Fisher, Clodagh M. Ryan, Chung-Wai Chow

**Pre-congress content**

**Session 134  00:00 - 23:59**

**E-poster session: Pulmonary embolism**

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

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

**Chairs:** Olivier Sanchez (Paris, France), FATIMA ALHAMED ALDUHII (ALEPPO, Syrian Arab Republic)

1859 **Chronic thromboembolic pulmonary hypertension in acute pulmonary embolism: A risk factor evaluation study**
Şilan Işık (Ankara, Turkey), Emine Bahar Kurt

1860 **Predictors of Residual Pulmonary Vascular Obstruction after Pulmonary Embolism: results from a prospective cohort study**
Gaël Picart (Brest, France), Francis Couturaud, Philippe Robin, Cécile Tromeur, Raphael Le Mao, Leela Raj, Christophe Leroyer

1861 **The relationship of thrombus localization with prognosis and chronic thromboembolic pulmonary hypertension in acute pulmonary thromboembolism**
Sibel Nayci (Mersin, Turkey), Biray Harbiyeli, Buğra Özkan, Pınar Pelin Özcan, Yüksel Balci, Ismail Türkay Özcan, Eylem Sercan Ozcgr, Cengiz Özge

1862 **Pulmonary thromboembolism in childhood: Six years of single center experience**
Gizem Özcan (Ankara, Turkey), Hasan Fatih Çakmakli, Fazilcan Zirek, Tanil Kendirli, Tayfun Uçar, Nazan Çobanoğlu

1863 **Comparison of side effects between thrombolytic and anticoagulation therapy in patients with Pulmonary Embolism**
Habibe Oflaz Hezer (Ankara, Turkey), Hatice Kilic, H. Canan Hasanoglu, Aysegul Karalezli, Elif Babaoglu, Mukremin Er, E. Sengül Parlak, Osama Abuazina, Derya Oztuna, Emine Arguder

1864 **Analysis of Causes of Diagnostic Difficulties and Features of Clinical Course of Pulmonary Embolism**
Nataliia Popenko (Kyiv, Ukraine)

1865 **Influence of cancer diagnosis in patients with pulmonary embolism**
Jacinto Hernandez Borge (Badajoz, Spain), Luis Miguel Sierra Murillo, Sebastian Hernández Gómez, Pilar Iñigo Naranjo, Miguel Benitez-Cano Gamonoso, Maria Del Carmen Garcia Garcia

1866 **Clinical Risk Stratification of Pulmonary Embolism to Support the Development of a Pulmonary Embolism Response Team (PERT) at a Tertiary Referral Hospital.**
Patrick Kerr (Dublin 8, Ireland), Ronan Lee, Robyn Poole, Michelle Lavin, Patricia Houlihan, Brendan Mcadam, Michael Lee, Ross Morgan, Emnet O’Brien

1867 **CT abdomen and pelvis to investigate for occult malignancy in patients with first unprovoked pulmonary embolism, is it justified?**
Emily Hobbs (Liverpool, United Kingdom), Amy Heron, William Barnsley, Zaroug Wahbi

1868 **Does abdominal-pelvic CT detect occult malignancy in patients with unprovoked pulmonary embolism?**
Bana Hawrany (Cleckheaton, United Kingdom), Julian Ting, Dipansu Ghosh

1869 **What is the incidence of pleural effusions in acute pulmonary embolism?**
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson

1870 **Changes in heart rate variability during psychological stress in cardiopulmonary failure patients**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Guadalupe Lizzbball Luna Rodriguez, Viridiana Pelaéz-Hernández, Laura Arely Martinez-Bautista, Karla Leticia Rosales-Castillo, Karen Aidee Sanillán-Reyes, Arturo Orea-Tejeda, Manuel Abraham Gómez-Martinez, Rocío Sánchez-Santillán, Juan José Orozco-Gutierrez, Ilse Del Carmen Pérez-Garcia, Nathalie Martinez-Luna, Yael Ramiro Gastelum-Ayal

**Pre-congress content**

**Session 135  00:00 - 23:59**

**E-poster session: Health effects of inhaled nicotine devices: from smoking to vaping and heated tobacco**
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<td>Diffuse Alveolar Hemorrhage: a life-threatening adverse effect of vaping</td>
<td>Dominika Ambrożej (Warsaw, Poland), Teresa Bierecka, Wojciech Feleszko, Katarzyna Krenke</td>
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<td>1872</td>
<td>Changes in oxygenation following steroid administration in patients diagnosed with e-cigarette, or vaping, associated lung injury (EVALI)</td>
<td>Denitza Blagev (Salt Lake City, United States of America), Dixon Harris, Sean Callahan, Braden Anderson, Dave Collingridge, Susan Rea, David Guidry, Colin Grissom, Michael Lapsa</td>
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<td>1873</td>
<td>Smoking types and EVALI awareness in young Russian smokers</td>
<td>Valentina Kapustina (Moscow, Russian Federation), Anna Buchneva</td>
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<td>1874</td>
<td>Impact of e-liquid composition on the emission and inhalation of carbonyl compounds</td>
<td>Efthimios Zervas (Patra, Greece), Niki Matsouki, Evaggelia Bekou, Paraskevi Rodopoulou, Paraskevi Katsaounou</td>
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<tr>
<td>1875</td>
<td>Electronic cigarette use strongly associated with respiratory diseases: Results from Russian Tobacco Control Policy evaluation survey</td>
<td>Marine Gambaryan (Moscow, Russian Federation), Anna Kalinina, Marina Popovich, Michail Starovoytov, Oxana Drapkina</td>
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<td>1876</td>
<td>Negative impact of heated tobacco products use on smoking cessation: a prospective study</td>
<td>Makiko Kanai (Kyoto, Japan), Osamu Kanai, Tadashi Mio</td>
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<tr>
<td>1877</td>
<td>Emissions of Inhaled Benzene, Toluene, Ethylbenzene and Xylene from Slim, Classic and Heated Cigarettes</td>
<td>Efthimios Zervas (Patra, Greece), Saida Mukhanova, Niki Matsouki, Alma Shobabyeova, Talgat Nurgozhin, Stavros Poulopoulos, Paraskevi Katsaounou</td>
</tr>
<tr>
<td>1878</td>
<td>Assessment of lung function in symptomatic and asymptomatic smokers without Chronic Obstructive Pulmonary Disease (COPD) using the Impulse Oscillatory Technique (IOT)</td>
<td>Ioanna Tsiouprou (Thessaloniki, Greece), Dionisios G. Spyrotos, Konstantinos Porpodos, Athanasia Pataka, Theodoros Kontakiotis</td>
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<tr>
<td>1879</td>
<td>The clinical significance of exhaled nitric oxide in adolescent smokers</td>
<td>Anastasia Fialkovska (Dnipro, Ukraine), Svitlana Ilchenko</td>
</tr>
<tr>
<td>1880</td>
<td>The Effects of Substance Use Disorder on Respiratory Function Parameters and Functional Capacity in Istanbul</td>
<td>Rustem Mustafaoglu (Istanbul, Turkey), Ashi Görek Dilektaşlı, Rengin Demir, Emrah Zirek, Tansu Birinci, Ebru Kaya Mutlu, Cuneyt Evren, Arzu Razak Ozcinler</td>
</tr>
<tr>
<td>1881</td>
<td>Blood eosinophil levels and exacerbations in a cohort of biomass and tobacco-related COPD patients at high altitude (2600 m)</td>
<td>Olga Milena Garcia Morales (Bogotá, Colombia), Carlos Celis-Preciado, Maria Nely Rodriguez, Violeta Avendaño, Alejandra Cañas-Arboleda, Paola Rodriguez, Leonardo Galindo, Andres Gonzalez</td>
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<td>1882</td>
<td>Does DNA methylation levels change in smokers?</td>
<td>Mehmet Uysal (İstanbul, Turkey), Halit Cinarka, Yelda Ozgun Niksarlioğlu, Yasemin Oyaci, Sacide Pehlivan</td>
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<td>1883</td>
<td>Aortic stiffness in young smokers classified as chronic bronchitis: the British Lung Foundation (BLF) Early COPD cohort</td>
<td>Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Andrew Ritchie, Gavin Donaldson, Jadwiga Wedzicha, Charlotte Bolton</td>
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<td>1884</td>
<td>Exposure to second-hand smoking during childhood and/or adulthood as a risk factor for respiratory disease</td>
<td>Nanna Smedengaard (Køge, Denmark), Morten Dahl, Eskild Landt</td>
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<tr>
<td>1885</td>
<td>The association of high nicotine metabolism ratio with COPD in smokers undergoing a smoking cessation program.</td>
<td>Aldo Pezzuto (Rome, Italy), Marina Borro, Luana Lionetto, Alberto Ricci, Giulio Guerrieri, Dario Pizzirusso</td>
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<td>1886</td>
<td>Inhaler recycling prevalence in a secondary care clinic in England</td>
<td>Ruth De Vos (Southampton (Hampshire), United Kingdom), Hitasha Rupani, Jayne Longstaff, Alexander Hicks, Lauren Fox, Laura Wissen, Tom Brown, Anoop Chauhan</td>
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<td>1887</td>
<td>Association of Environmental Tobacco Smoke Exposure with Carotid Intima Media Thickness in healthy children and adolescents: a systematic review</td>
<td>Siyu Dai (Hong Kong, Hong Kong), Kate Ching Ching Chan</td>
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</table>
**Session 136**  
**00:00 - 23:59**

**E-poster session: Respiratory homeostasis and structural changes in disease**

**Disease(s):**  
Airway diseases, Interstitial lung diseases

**Method(s):**  
Cell and molecular biology, General respiratory patient care, Physiology, Pulmonary function testing, Endoscopy and interventional pulmonology, Imaging, Epidemiology

**Chairs:**  
Anne M. van der Does (Leiden, Netherlands), Killian Hurley (Dublin 3, Ireland)

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**1888**  
The influence of the conservation of respiratory epithelial samples on ciliary functional analysis  
Noemie Bricmont (Florennes, Belgium), Lionel Benchimol, Anne-Lise Poirier, Hedwige Boboli, Marie-Christinne Seghaye, Renaud Louis, Philippe Lefebvre, Bruno Louis, Jean-François Papon, Céline Kempeneers

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**1889**  
Eosinophil subtypes' effect on airway smooth muscle cells differentiation and migration in asthma  
Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Egle Jurkeviuciute, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaite-Zukauske, Jolita Palacionyte, Kestutis Malakauskas

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**1890**  
LET-7 promotes airway remodeling via regulation of IL-6 in chronic obstruction pulmonary disease  
Tao Bian (Wuxi, China), Tingting Di

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**1891**  
Latent TGF-ß binding protein 4 is an important factor that influences anti-inflammatory and cell-protective responses in the pathogenesis of pulmonary emphysema  
Masaki Ishii (Tokyo, Japan), Yasuhiro Yamaguchi, Hironobu Hamaya, Yuko Iwata, Sumito Ogawa, Masahiro Akishita

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**1892**  
Activated Neutrophils induce epithelial mesenchymal transition through miR21 expression  
Laura Pandolfi (Pavia, Italy), Sara Bozzini, Vanessa Frangipane, Monica Morosini, Maura D’Amato, Elena Salvaterra, Valentina Vertui, Davide Piloni, Patrizia Morbini, Elena Rossi, Federica Meloni

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**1893**  
Stereological approach to the pathology of lung aging in humans  
Fabricio Santos (Diadema, Brazil), Franciska Lucas Froio, Gabriel Ribeiro Júnior, Mariana Matera Veras, Lisie Justo, Paulo Saldiva, Natalia De Souza Xavier Costa, Thais Mauad

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**1894**  
The role of airways 17ß-estradiol as a biomarker of severity in post-menopausal asthma  
Maria Giovanna Palumbo (Foggia, Italy), Giulia Scioccia, Donato Lacedonia, Carla Maria Irene Quarato, Giorgia Lepore, Anna Del Colle, Annarita Depalo, Maria Luisa Colucci, Giovanna Elisiana Caragnano, Piera Soccio, Maria Pia Foschino Barbaro

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**1895**  
Murine airway bronchodilation via Proteinase Activated Receptor 2  
Kimberly Black (Paisley, United Kingdom), Andrew Mackenzie, Lynette Dunning, Anne Crilly, Joanna Brzeszczyńska, Lorcan Mcgarvey, Keith Thornbury, Carl S. Goodyear, John C. Lockhart, Gary J. Litherland

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**1896**  
Epithelial anion secretion of human bronchial ciliary epithelium.  
Shigekuni Hosogi (Kyoto, Japan), Nobuyo Tamiya, Hironobu Hamaya, Yuko Iwata, Sumito Ogawa, Masahiro Akishita

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**1897**  
Perspective - Transcriptomic and proteomic analyses reveal age-related extracellular matrix changes in the lung  
Maunick Lefin Koloko Ngassie (Groningen, Netherlands)

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**1898**  
Participation COX and NOS in effect of IL-1ß on lung ventilation and hypoxic chemoreception  
Anna Klinnikova (Saint-Petersburg, Russian Federation), Galina Danilova, Nina Aleksandrova

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**1899**  
The effect of eosinophil subtypes on ASM cells proliferation and viability in asthma  
Egle Jurkeviuciute (Kaunas, Lithuania), Andrius Januskevicius, Ieva Janulaityte, Airidas Rimkunas, Beatrice Tamasauskaite, Jolita Palacionyte, Zita Kalinauskaite-Zukauske, Kestutis Malakauskas

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**1900**  
The effect of Taxane anticancer drugs on bronchiolar ciliary activity in human airway cultured cells  
Nobuyo Tamiya (Kyoto, Japan), Shigekuni Hosogi, Jun Suzumoto, Masaki Ishida, Chikara Sakaguchi, Michiko Tsuchiya, Yukio Nagasaka, Eishi Ashihara, Koichi Takayama

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**1901**  
Activity of ENaC-activating serine proteases in human alveolar epithelial cells  
Alireira Tavakolinejad (Auckland, New Zealand), Vinod Suresh

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**1902**  
PIERCEing ciliogenesis: defining a role for PIERCE1 and its' paralog C15ORF65 in multiciliogenesis  
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Lynne Bingle, Colin Bingle

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**1903**  
Mitotically inactivated 3T3-L2 feeder cells support the differentiation of 3D bronchospheres  
Felix Ritzmann, Michelle Brand, Richard Sprott, Frank Langer, Thomas Tschernig, Robert Bals, Christoph Beisswenger
Disease(s) : Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases

Method(s) : Cell and molecular biology, General respiratory patient care, Pulmonary function testing, Respiratory intensive care, Surgery, Transplantation, Physiology, Epidemiology

Chairs : Federica Meloni (Pavia (PV), Italy), Laura Fregonese (London, United Kingdom)

1904 Improving Primary Ciliary Dyskinesia diagnosis using Artificial Intelligence
Andrea Lucia do Nascimento Pinto (London, United Kingdom), Laurens Hogeweg, Oliver Hamilton, Ioannis Katramados, Amelia Shoemark, Thomas Burgoyne, Claire Hogg

1905 Oscillometry (OSC) to assess respiratory function in rare neuromuscular disease with respiratory muscle weakness (NM D).
Arash Rad (Montreal, Canada), Marta Kaminska, Basil J. Petrof, Larry C. Lands, Zoltan Hantos, Ronald J. Dandurand, Stewart B. Gottfried

1906 An international perspective on the demographic and clinical features of exercise induced laryngeal obstruction
Emil S. Walsted (Frederiksberg, Denmark), Bamidele Famokunwa, Louise Andersen, Sune L. Rubak, Frederik Buchwald, Lars Pedersen, James W. Dodd, Vibeke Baeker, Kim G. Nielsen, Andrew Getzin, James H. Hull

1907 Prognostic determinants in motoneuron diseases
Alessandro Celi (Pisa (PI), Italy), Massimiliano Serradori, Marco Gherardi, Luciano Gabbielli, Claudio Bettini, Ferruccio Aquilini, Giovanni D’Ambrosio, Antonio Servino

1908 Investigation of granulomatous lung diseases in cases with granulomatosis ocular pathologies
Zuleyha Bingol (Istanbul, Turkey), Tulin Cagatay, Gülfer Okumuş, Merih Oray, Sehan Dagistanlı, Zeki Kilicaslan, Ilknur Tugal – tukun

1909 Altered exhaled NO parameters in newly onset of rheumatoid arthritis
Marieann Högman (Uppsala, Sweden), Alexandra Thornadsson, Anders Lind, Thomas Weitoff

1910 Examining pulmonary function measures in patients with systemic lupus erythematosus (SLE)
Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Ljudmila Stojanovic, Rade Milic, Vladimir Zugic

1911 Comprehensive study of the mucociliary system in patients with chronic obstructive pulmonary pathology
Vyacheslav Kobylansky (Moscow, Russian Federation)

1912 Clinical profile of Tropical Pulmonary Eosinophilia (TPE) in Bihar, India
Saket Sharma (Patna (Bihar), India)

1913 Rate of respiratory symptoms in naive patients with Chronic lymphocytic leukemia
Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko

1914 Vascular anomalies causing airway compression: six-year single center experience
Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Mehmet Ramoğlu, Tayfun Uçar, Hasan Erkan Tutar, Fatma Nazan Çobanoglu

1915 High minute volume pulmonary hypertension reversed by thiamine administration in wet Beriberi
Martin Bosio (Buenos Aires, Argentina), Felipe Julio Chertcoff, Lorena Maldonado, Nicolas Emery, Alejandro Salvador

1916 Spontaneous resolutive pulmonary necrotizing granulomatosis
Basient Weicker (, Belgium), Adeline Rosoux, Isabelle Gielen, Bruno Coulier, Richard Fognier

Alberto Garcia Ortega (Valencia, Spain), Ana Torres Villar, Marcos Prado Barragán, Grace Oscullo Yepez, Antonio Canada Martinez, Lorena Puchades Renau, and Julia Herreras Lopez, Rafael Lopez Andujar, Raquel Lopez Reyes

1918 Respiratory complication rate after scoliosis surgery in children with cerebral palsy.
Marijke Proesmans (Leuven, Belgium), Elke Vandendriessche, Pierre Moens, Els Ortibus

1919 Title: Impulse Oscillometry (IOS) in patients with Amyotrophic Lateral Sclerosis
Paola Pierucci (Bari, Italy), Enrico Buonamico, Andrea Portacci, Francesca Fortunato, Giovanna Elisiana Carpagnano, Onofrio Resta

Pre-congress content
Session 138 00:00 - 23:59

E-poster session: Molecular insights into paediatric disease

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

Chairs : Miguel Angel Alejandre Alcázar (Köln, Germany), Chair to be confirmed
E-poster session: New insights into evaluation and treatment of respiratory disease

**Disease(s):** Sleep and breathing disorders, Pulmonary vascular diseases, Airway diseases, Interstitial lung diseases, Respiratory critical care, Thoracic oncology

**Method(s):** Physiology, Pulmonary rehabilitation, General respiratory patient care, Pulmonary function testing, Epidemiology, Public health, Imaging, Respiratory intensive care

**Chairs:** Mathieu Marillier (Kingston, Canada), Roberto A. Rabinovich (Edinburgh (Scotland), United Kingdom)

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**1920**
**Late Breaking Abstract - Relationship between obesity and aging of the pulmonary parenchyma**
Hana Trabelsi (Sfax, Tunisia), Sahar Chakroun, Khouloud Kchaou, Asma Haddar, Rim Kammoun, Mariam Sahnoun, Ines Kammoun, Leila Triki, Kaouthar Masmoudi

**1921**
**Impaired cerebral oxygenation: a cause for exercise intolerance in patients with fibrotic interstitial lung disease?**
Mathieu Marillier (Kingston, Canada), Anne-Catherine Bernard, Samuel Verges, Onofre Moran-Mendoza, Denis E O'Donnell, J Alberto Neder

**1922**
**Determinants and consequences of exertional ventilatory inefficiency in patients with ILD**
Cortozi Berton Danilo, Franciele Plachi, Fernanda Balzan, Ricardo Gass, Igor Cézar, J Alberto Neder, Danilo Berton

**1923**
**Exerntional ventilatory and gas exchange inefficiency: contrasting interstitial versus pulmonary vascular disease**
Nathalia Mendes (Porto Alegre, Brazil), FERNANDA BALZAN, Franciele Plachi, Igor Cézar, Lisa Cé, Kimberli Käfer, J Alberto Neder, Danilo Berton

**1924**
**The effect of high flow oxygen during constant-load cycling test in severe ILD patients.**
Yara Al Chikhanie (Dieulefit, France), Frédéric Hérengt, Samuel Vergès, Daniel Veale

**1925**
**Effect of High-Flow Oxygen on Exercise Performance in COPD. A Randomized Crossover Trial.**
Konstantinos Bitos (Zurich, Switzerland), Michael Furian, Laura Mayer, Simon Rafael Schneider, Simone Buenzli, Maamed Mademilov, Ulan Sheraliev, Ainura K. Abdraeva, Shaia Aydaralieva, Aybermet Myratbekova, Talantbek M. Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch

**1926**
**Impact of automatic oxygen titration alone or with high flows on exercise tolerance in patients with lung disease and exercise oxygen desaturation**
Félix-Antoine Vézina (Sherbrooke (QC), Canada), Pierre-Alexandre Bouchard, Damien Viglino, Emilie Breton-Gagnon, Geneviève Dion, Lara Bilodeau, Steeve Provencher, Cynthia Brouillard, François Lellouche, François Maltais

**1927**
**Effects of oxygen supplementation during exercise on hemodynamic responses in patients with pulmonary arterial hypertension**
Afroditi Boutou (Thessaloniki, Greece), Konstantina Dipla, Anthias Zafeiridis, Stavros Papadopoulos, Anastasia Chatzikioti, Aikaterini Markopoulou, Ioannis Stanopoulos, Georgia Pitsiou

**1928**
**The restrictive consequences of extreme obesity in men and women**
Mathieu Marillier (Kingston, Canada), Anne-Catherine Bernard, Gabriel Reimao, Giovana Castelli, Hadeel Alqurashi, Denis E O'Donnell, J Alberto Neder

**1929**
**Hypoxic training to improve exercise capacity in obesity: a randomized controlled trial**
Samuel Vergès (Grenoble, France), Sammar Chacaroun, Anna Borowik, Ignacio Vega-Escamilla Y Gonzalez, Stéphane Doutreleau, Bernard Wuyam, Elise Belaidi, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore

**1930**
**Physiological responses to passive hypoxic conditioning in obesity: a randomized controlled trial**
Samuel Vergès (Grenoble, France), Sammar Chacaroun, Anna Borowik, Stéphane Doutreleau, Elise Belaidi, Bernard Wuyam, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore

**1931**
**Effect of nocturnal oxygen therapy on next-day exercise performance of COPD patients at 2048m. Data from a RCT.**
Sophia Gutweniger (Zürich, Switzerland), Tsogay D. Latshang, Sayaka S. Aeschbacher, Fabienne Huber, Deborah Flueck, Mona Lichtblau, Stefanie Ulrich, Elisabeth D. Hässl, Philipp M. Scheiwiller, Silvia Ulrich, Konrad E. Bloch, Michael Furian

**1932**
**A novel approach for automated alveolar morphometry using synchrotron X-ray microtomography in intact rat lung**
Bertrand Maury (PARIS cedex 05, France), Hugo Leclere, Benoit Semin, Sébastien Martin, Lucas Fardin, Sam Bayat, Hervé Guénard

**1933**
**Within-breath dynamics of atelectrauma during mechanical ventilation studied by in vivo 4D microscopy in injured rabbit lung**
Luca Fardin (Grenoble, France), Ludovic Broche, Goran Lovric, Alberto Mittone, Anders Larsson, Alberto Bravin, Sam Bayat
Feasibility and reproducibility of oscillometry for measuring respiratory function in young children: the SEPAGES cohort
Sam Bayat (Grenoble, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoan Gioria, Rémy Slama, Isabelle Pin, Valérie Siroux

Cardiopulmonary exercise test in preoperative risk stratification for lung resection: what is beyond oxygen consumption?
Rocco Francesco Rinaldo (Milano (MI), Italy), Fabiano Di Marco, Francesca Marchetti, Marcelina Kocwin, Beatrice Vigo, Alessandra Masseroni, Elena Brambilla, Federica Pitarri, Stefano Pavesi, Federico Raveglia, Alessandro Baisi, Stefano Centanni

Reduced neural gating of respiratory sensations in COPD patients versus healthy controls
Ysys Denutte (Leuven, Belgium), Thomas Reijnders, Paul W. Davenport, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

Pre-congress content Session 140 00:00 - 23:59

E-poster session: Clinical management of lung transplant recipients

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

Method(s): Transplantation, General respiratory patient care, Surgery, Respiratory intensive care, Pulmonary function testing, Pulmonary rehabilitation

Chairs: Anna Elisabeth Frick (Viena, Austria), Johanna M. Kwakkel-van Erp (Antwerp, Belgium)

Tacrolimus versus cyclosporine for lung transplant recipients in Portugal
David Tavares Teixeira Silva (Povoa de Santo Adrião, Portugal), Carolina Dantas, Madalena Emiliano, Luisa Semedo, João Cardoso

Prevalence and outcomes of diabetes in lung transplant recipients: the portuguese experience
Maria Inês de Sousa Moreira (Lisboa, Portugal), Sara Silva, Ana Raquel Magalhães, Sara Alfaro, Luisa Semedo, João Cardoso

Cytomegalovirus-specific cell-mediated immunity after prophylaxis predicts late-onset infection in lung transplantation
Eva Revilla Lopez (Barcelona, Spain), Marta Jarque, Berta Sáez Giménez, Ibai Los Arcos, Susana Gómez Ollés, Oriol Bestar, Carlos Bravo, Victor Monforte

New nebulized treatment options for bronchial infection in lung transplant
Marta Arjona (Barcelona, Spain), David Espejo, Eva Revilla, Ibai Los Arcos, David Campany, Berta Sáez, Miriam Barrecheguren, Victor Monforte, Irene Bello, Manuel López Meseguer, Carlos Bravo, Cristina Berastegui

Clamshell vs bilateral anterolateral thoracotomy for double lung transplantation: impact on vital capacity
Alessandro Palleschi (Milano (MI), Italy), Antonella Lomauro, Emilia Privitera, Elisa Daffre, Valeria Musso, Andrea Aliverti, Letizia Morlacchi, Rosaria Carrinola, Valeria Rossetti, Mario Nosostti

Airway complications after lung transplantation: risk factors and survival
Federico Raimondi (Milano, Italy), Claudia Maria Sanfilippo, Francesco Tarantini, Gianluca Imeri, Caterina Conti, Stefania Camagni, Francesco Consonni, Giuseppe Ciaravino, Sofia Comandini, Piercarlo Parigi, Sergio Vedovati, Michele Colledan, Fabiano Di Marco

Impact of inspiratory muscle strength on exercise capacity after lung transplantation.-a longitudinal study in early stage-
tatsuya sato (Daito City, Osaka Prefecture, Japan), Kazuyuki Tabira, Susumu Sato, Yohei Oshima, Yuji Yoshioka, Ryota Hamada, Kazuya Tamimura, Toyoofumi Yoshikawa, Hiroshi Date, Shuichi Matsuda

6MWT as useful predictor for long term survival after lung transplantation in patients with ILD
Elias Kampschulte (Vienna, Austria), Alberto Benazzo, Panja Boehm, Christian Lang, Konrad Hoetzenecker, Peter Jaksch, Gabriella Murakoezy, Walter Klepetko, Christopher Lambers

Impact of intensive care unit (ICU) admissions in Lung Transplant patients
Myriam Aguilar Perez (Las Rozas (Madrid), Spain), Marta Erro Iribarren, Alfonso Ortega López, Sandra Tejado Bravo, Rosalia Laporta Hernandez, Maria Teresa Lazaro Carrasco De La Fuente, Piedad Ussetti Gil

Outcome of lung retransplantation: from graft survival to patients' perspective
Luca Novelli (Bergamo, Italy), Sofia Comandini, Fabiano Di Marco, Gianluca Imeri, Stefania Camagni, Michele Colledan, Claudia Maria Sanfilippo, Piercarlo Parigi, Alessandro Lucianetti, Cristina Pugliese
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**E-poster session: Non-invasive ventilation and nasal high flow: technical aspects and predictive scores**

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

**Method(s):** Respiratory intensive care, General respiratory patient care, Pulmonary function testing, Physiology, Pulmonary rehabilitation, Imaging

**Chairs:** João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Claudia Crimi (Catania (CT), Italy)

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<th>E-Poster Session</th>
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<td>1947</td>
<td><strong>The Effectiveness of Disinfecting Wipes on the Mechanical Ventilator Surfaces: A Pilot Study</strong>&lt;br&gt;<strong>Usefulness of non-invasive ventilation delivered by helmet versus oronasal mask among patients at high risk of post-extubation respiratory failure</strong>&lt;br&gt;<strong>Is the level of expiratory positive airway pressure (EPAP) needed for tracheal stenting correlated to improvement in exercise capacity in patients with tracheobronchomalacia (TBM)?</strong>&lt;br&gt;<strong>Effect of different connections on aerosol delivery during non-invasive mechanical ventilation.</strong>&lt;br&gt;<strong>A bench test of non-invasive ventilation (NIV) interfaces</strong>&lt;br&gt;<strong>Development of a bench test for noninvasive ventilation (NIV) interfaces</strong>&lt;br&gt;<strong>Reliability of two flow-based algorithms of detection of expiratory flow limitation (EFL) in patients with chronic non-invasive ventilation.</strong>&lt;br&gt;<strong>EPAP variability during EFL Treatment in Patients using a Non-Invasive Ventilator</strong>&lt;br&gt;<strong>Evaluation of EFL Incidence and Impacts of Novel NIV Home Therapy</strong>&lt;br&gt;<strong>Effect of Average Volume-Assured Pressure Support Treatment on Quality of Life in COPD patients with hypercapnic respiratory failure</strong>&lt;br&gt;<strong>Comparison of positive airway pressure efficacy in obese hypercapnic overlap syndrome.</strong>&lt;br&gt;<strong>Gastrostomy outcome in patients with Progressive Respiratory Failure (PRF) secondary to Neuromuscular Disorders (NM D)</strong>&lt;br&gt;<strong>Overweight Motor Neurone Disease Patients with Bulbar Dysfunction: High Risk Gastrostomy Tube Insertion</strong>&lt;br&gt;<strong>The utility of HACOR score in predicting failure of High-flow nasal oxygen (HFNO) in acute hypoxemic respiratory failure.</strong>&lt;br&gt;<strong>HACOR in Action: Noninvasive Ventilation Failure in Acute Respiratory Failure</strong></td>
<td>Sa-Bi Lin (New Taipei City, Taiwan), Chen-En Chiang, Yu-Wen Lin, Wei-Lun Liu, Chia-Hei Su, Ke-Yun Chao&lt;br&gt;Mihwa Park (Incheon, Republic of Korea), Jung Soo Kim, Minjeong Kim, Ah Jin Kim, Man-Jong Lee&lt;br&gt;Léa Razakamanantsoa (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Bachar Chahine, Lauréne Goumert, Camille Germain, Julien Maris, Jorys Aochond, Tristan Bonnevie, Francis-Edouard Gravier, Antoine Cuvelier, Maxime Patout&lt;br&gt;Haitham Saeed (fayoum, Egypt), Antonio M. Esquinas, Bruno Gil Gonçalves, Mohamed E.A. Abdelrahim&lt;br&gt;Christian Caillard (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Lea Razakamanantsoa, Antoine Cuvelier, Maxime Patout&lt;br&gt;Manuel Lujan Torne (Sabadell (Barcelona), Spain), Cristina Lalmolda Puyol, Marta Corral, Ana Hernandez Voth, Javier Sayas&lt;br&gt;Mike Kissel (Monroeville, United States of America), Chuck Cain, Jim McKenzie, Bill Hardy, Parul Nisha, Sidney Cannon-Bailey&lt;br&gt;Josh Stachel (Monroeville, United States of America), Chuck Cain, Bill Hardy, Michael Kissel, Parul Nisha, Jim McKenzie, Sidney Cannon-Bailey&lt;br&gt;Doaa Magdy (Assuit, Egypt), Ahmed Metwally&lt;br&gt;Yizhong Zheng (Sydney (NSW), Australia), Brendon Yee, Keith Wong, Amanda Piper&lt;br&gt;Akshay Dwarakanath (Wakefield (West Yorkshire), United Kingdom), Sanjay Bangad, Joseph Hogg, Hushman Elfiaki, Mohammed Khan, Anjali Gondker, Muthu Thirumaran, Salim Meghjee, Anthony Johnson&lt;br&gt;Michelle Ramsay (Esher, United Kingdom), Angela Reddy, Shauna Sheridan, Reegan Puthussery, Joerg Steier, Eui-Sik Suh, Shelley Srivastava, Hina Pattani, Philip Marino, Patrick Murphy, Nicholas Hart, Georgios Kaltsakas&lt;br&gt;Ahmed Metwaly (Assuit, Egypt), Doaa Magdy&lt;br&gt;Oki Ishikawa (New York, United States of America), Matthew Ballenberger, Brian Birnbaum, Bushra Mina, Antonio Esquinas, Bruno Gil Gonçalves, Alejandro Ubeda, Irene Fernandez Burgos, Giuseppe Fiorentino, Maurizia Lanza, Suha Bozbay, Yalim Dikmen, Jun Duan</td>
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The Non-Invasive Ventilation Outcomes (NIVO) score in presumed COPD exacerbation without prior spirometry.
Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Tom Hartley, John Steer, Mark Elliott, Milind Sovani, Helen Curtis, Elizabeth Fuller, Patrick Murphy, Dinesh Shrikrishna, Keir Lewis, Neil Ward, Christopher Turnbull, Nicholas Hart, Stephen Bourke

Effects of titrating oxygen flow and changing patient interfaces on aerosol delivery
Yasmin M. Madney (Benisuef, Egypt), Nabila Ibrahim Laz, Ahmed A. Elberry, Hoda Rabea, Mohamed E. A. Abdelrahim

In-vitro evaluation of pressurized metered dose inhalers in high flow oxygen system
Yasmin M. Madney (Benisuef, Egypt), Hadeer S. Harb, Bruno Gil Goncalves, Antonio M. Esquinas

Mask related side effects (SE) in long-term non-invasive ventilation (NIV)
Maxime Patout (Mont-Saint Aignan, France), Christian Caillard, Grégoire Joly, Adrien Kerfoutn, Emeline Fresnel, Léa Razakamanantsoa, Jean-François Muir, Elodie Lhuillier, Antoine Cuvelier

Predicting failure of non invasive ventilation (NIV) and High flow nasal cannula (HFNC) in patients with acute hypoxemic hypocapnic respiratory failure (AHRF): the usefulness of the standardised PaO2/FiO2 ratio (P/F-st).
Giacomo Ghinassi (Italy), Antonietta Bandinu, Uberto Maccari, Giuseppina Ciarleglio, Chiara Madioni, Valentina Graneese, Laura Salerno, Maria Lucia Valentini, Elena Torricelli, Pietro Pirina, Raffaele Scala

Electronic cigarette liquids induce formation of tunnelling nanotubes in BEAS2B cells
Aleksandra Divac Rankov (Beograd, Republic of Serbia), Sara Trifunovic, Mila Ljujic

Impact of particulate matter (PM) exposure on lung macrophage phenotype and phagocytic activity.
Stephan Van Eeden (Vancouver (BC), Canada), Kei Yamasaki, Beth Whalen

Effects of volcanic fumaroles on large and distal airway epithelial homeostasis
Elisabetta Pace (Palermo (PA), Italy), Doriani Lo Piparo, Caterina Di Sano, Serena Di Vincenzo, Francesco Sortino

Calcium-sensing receptor antagonists, calcilytics, prevent activation of human dendritic and epithelial cells by urban particulate matter

Effect of N-acetylcysteine loaded in biocompatible nanoparticle on lipopolysaccharide-induced acute lung injury model in rats
Shin Young Kim (Seoul, Republic of Korea), Seongchan Kim, Seung Hoon Kim, Chi Hong Kim, Sung Kyoung Kim

Exposure to textile microplastic fibers impairs epithelial growth
Fransien van Dijk (Groningen, Netherlands), Gail Van Eck, Matthew Cole, Anna Salvati, Sophie Bos, Reinoud Gosens, Barbro Melgert

Cytotoxic effect of vehicular PM metals Fe3+ & Zn2+ on lung epithelia
Carly Woods (Paisley, United Kingdom), Gary lutherland, Andrew Hursthoe, Fionnuala Lundy, Gerard Sergeant, John Lockhart, Iain Mcelellan

Cigarette Smoke upregulates Notch1 signaling pathway in lung adenocarcinoma
Giuseppina Chiappara (Palermo (PA), Italy), Claudia Sangiorgi, Caterina Di Sano, Claudia D’Anna, Serena Di Vincenzo, Giovanni Zito, Chiara Cipollina, Alessandro Bertani, Patrizio Vitullo, Elisabetta Pace

Increased STIM1 expression induced by cigarette smoking extracts regulates the proliferation and production of inflammatory cytokines in human airway smooth muscle cells
Jun Chen (China), Zicheng Yuan, Zijian Zeng, Tao Wang, Fuqiang Wen

Regulatory effect of cadmium on inflammasome activation and and its upstream mechanisms
Jeeyoung Kim (Chuncheon, Republic of Korea), Yoonki Hong, Seok-Ho Hong, Woojin Kim

3D imaging of London roadside particulate matter
Lisa Miyashita (London, United Kingdom), Gary Foley, Ian Gill, Gavin Gillmore, Ruairaidh Dobson, Sean Semple, Ana Rule, Jonathan Grigg, David Wertheim
Epithelial wound repair is increased by farm dust in a co-culture model of airway epithelial cells and macrophages
Jasmijn A. Schrumpf (Leiden, Netherlands), Padmini P.S.I. Khedoe, Sander Van Riet, Dennis K. Ninaber, Erika Von Mutius, Hermelijn H. Smits, Pieter S. Hiemstra

LSC - 2020 - Diesel exhaust particles alter mitochondrial bioenergetics in human bronchial epithelial cells
Isabella Cattani-Cavaleri (Rio de Janeiro, Brazil), Isabella Cattani-Cavaleri, Hoeke A. Baarsma, Asmaa Oun, Melissa Van Der Veen, Amalia Dolga, Samuel Dos Santos Valenca, Martina Schmidt

LSC - 2020 - Diesel Exhaust Particles-induced Dysfunctional Responses in L ung Epi thelial Progenitors is mediated by oxidative stress
Xinhui Wu (Groningen, Netherlands), Xinhui Wu, Sophie Bos, Martina Schmidt, Loes Kistemaker, Reinoud Gosens

LSC - 2020 - Impact on pulmonary, intestinal and metabolic compartments of chronic smoking exposure and an unhealthy diet: a functional and multi-omic approach
Elodie Picard (Lille, France)

IgE-mediated inflammatory response induced by Crotalus durissus venom in mice
Ricardo Figueiredo (Feira De Santana (BA), Brazil), Marcos Lázaro Guerreiro, N a t a ly De Oliveira, El en Azevedo, Paul o Cesar Nunes, Ne uza Alcantara-Neves, Ilka Biondi

The effects of organic compounds of PM 2.5 in Seoul on LPS/or poly(I:C)-induced inflammation and phagocytosis
Kyoung-Hee Lee (Seoul, Republic of Korea), Jieun Park, Jisu Woo, Jiyeon Kim, Jongbae Heo, Chang-Hoon Lee, Seung-Muk Yi, Chul-Gyu Yoo

Cigarette smoke and TGF-β activate distinct repair processes in a proximal airway model
Serena Di Vincenzo (Palermo (PA), Italy), Dennis K Ninaber, Claudia Sangiorgi, Pieter S Hiemstra, Elisabetta Pace

Acute cardiopulmonary responses to air pollution exposure during short controlled physical exercise in healthy males.
Krzysztof Kocot (Siewierz, Poland), Jan E. Zejda

Gene expression profiles of adult-onset asthma and idiopathic environmental intolerance related to damp and mouldy buildings
Hille Suojalehto (Helsinki, Finland), Joseph Ndika, Irmeli Lindström, Liisa Airaksinen, Kirsi Karvala, Piia Karisola, Harri A lenius

Effects of short-term exposures to ultrafine particles near an airport in healthy adults.
Arian a Lammers (Amsterdam, Netherlands), Nicole A H Janssen, A John F Boere, Mari eke Berger, Cristina Longo, Susanne J H Vijverberg, Anne H Neerincx, Anke-Hilse Maitland-Van Der Zee, Flemming R Cassee

Impact of air pollutant of polycyclic aromatic hydrocarbons (PAHs) on the yearly decline of pulmonary in patients with asthma
Chun-Hua Wang (Taipei, Taiwan), Yu-Chen Huang, Chon-Lin Lee, Kian Fan Chung

IgG, IgG1, and IgG4 sensitization to microbial extracellular vesicles in indoor dust ultrafine particles in Asthma, COPD and Lung cancer
Goohyeon Hong (Cheonan, Republic of Korea), Jinho Yang, Youn-Seup Kim, Hochan Seo, Sungwon Kim, Andrea Mc dowell, Won Hee Lee, Young-Koo Je e, You-Young Kim, Yoon-Keun Kim

Early-life home environment related to incidence and remission of wheeze and rhinitis
Dan Norback (Uppsala, Sweden), Xin Zhang, Tian Li, Zefei Zhang, Liu Yang, Xingyi Chen, Zhaohua Zeng, Zhuohui Zhao

Visible moulds, smoking, rhinitis and asthma in adults: the EGEA study
Laurent Orsi (Villejuif Cedex, France), Laurent Orsi, Jean Bousquet, Bénédicte Jacquemin, Valérie Siroux, Maritta S. Jaakkola, Jouni J.K. Jaakkola, Bénédicte Leynaert*, Rachel Nadif*
<table>
<thead>
<tr>
<th>Year</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1993</td>
<td>Synergistic effect of mold and tobacco smoke exposure on adult-onset asthma</td>
<td>Jouni J.K. Jaakkola (Oulu, Finland), Rachel Nadif, Taina K. Lajunen, Maritta S. Jaakkola</td>
</tr>
<tr>
<td>1994</td>
<td>A rapid test for environmental detection of pigeon antigen</td>
<td>Silvia Sánchez-Díez (Barcelona, Spain), Maria Jesús Cruz, Daniel Álvarez-Simon, Tomás Montalvo, Xavier Muñoz, Susana Gómez-Ollés</td>
</tr>
<tr>
<td>1995</td>
<td>Relationship between ambient air pollution and lung function in a Canadian population: the CanCOLD cohort study</td>
<td>Dany Doiron (MONTREAL, Canada), Wan C. Tan, Sharmistha Biswas, Liesel Dsilva, Gilbert Nadeau, Shawn D. Aaron, Kenneth R. Chapman, Paul Hernandez, François Maltais, Darcy Marciniuk, Denis O’Donnell, Don D. Sin, Odette Allonby, Chris Compton, Bruce E. Miller, Jean Bourbeau</td>
</tr>
<tr>
<td>1996</td>
<td>Influence of air pollution on hospital admissions in patients with COPD or asthma exacerbation.</td>
<td>Ana Cerezo Hernández (Valladolid, Spain), Daniel Álvarez González, Raúl López Izquierdo, Fernando Moreno Torrero, Ana Gómez García, Milko Daniel Terranova Rios, Carolina Andrea Urbina Carrera, Lucia Arroyo, Tomás Ruiz Albi, Andrea Crespo Sedano, Félix Del Campo Matías</td>
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<td>1998</td>
<td>Does parental or grandparental farm upbringing influence risk of asthma in offspring?</td>
<td>Vivi Schlünssen (Århus C, Denmark), Signe Timm, Cecilie Svanes, Morten Frydenberg, Torben Sigsgaard, Mathias Holm, Christen Janson, Lennart Brabæk, Britanny Campbell, Marie Kjær Madsen, Oskar Jogin, Rain Jogin, Linus Schöler, Randi Jacobsen Bertelsen, Ane Johannesen, Jose Sanchez-Ramos, Jesus Martinez-Morettall, Julia Dratva, Shyamali Dharmage</td>
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<tr>
<td>1999</td>
<td>Prevalence of diagnoses and comorbid conditions in patients with e-cigarette, or vaping, associated lung injury (EVALI)</td>
<td>Dixie Harris (American Fork, United States of America), Michael Lanspa, Braden Anderson, Susan Rea, Dave Collingridge, Sean Callahan, David Guidry, Colin Grissom, Dentiza Blagev</td>
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<tr>
<td>2000</td>
<td>Intrauterine and postnatal exposure to outdoor NO2 and lung function at school age</td>
<td>Ioar Rivas (Barcelona, Spain), Mónica Guexus, Carmen Iñiguez, Lucia Alonso, Marisa Estarlich, Mikkel Basterrechea, Alicia Abellan, Judith García-Aymerich, Carlos Zabaleta, Amparo Ferrero, Xavi Basagaña, Martine Vrijheid, Jordi Sunyer, Maribel Casas</td>
</tr>
<tr>
<td>2001</td>
<td>Workplace mold odor and renovations and the exacerbation of asthma in healthcare workers</td>
<td>Paul K. Henneberger (Morgantown, United States of America), Steven Rollins, Michael Humann, Xiaoming Liang, Feng Chiao Su, Aleks Stefaniak, Ryan Lebouf, Marcia Stanton, Abbas Virji</td>
</tr>
<tr>
<td>2002</td>
<td>In allergic individuals, FENO50 is associated with O3 and PM10 during pollen season,</td>
<td>Hanne Krage Carlsen (Gothenburg, Sweden), Hatice Koca, Susanna Lohman-Haga, Anneli Behndig, Lars Modig, Anna-Carin Olin</td>
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### Pre-congress content

**Session 144** 00:00 - 23:59

**E-poster session: Novel findings in intensive care unit medicine: part 1**

**Disease(s):** Respiratory critical care  Airway diseases  
**Method(s):** Respiratory intensive care  General respiratory patient care  Imaging  Endoscopy and interventional pulmonology  
Pulmonary rehabilitation  Cell and molecular biology  Epidemiology

**Chairs:** Sarah Schwarz (Köln, Germany), Leo Heunks (Amsterdam, Netherlands)

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<tr>
<th>Year</th>
<th>Title</th>
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<tr>
<td>2003</td>
<td>Late Breaking Abstract - Aggravated pathology in MRSA pneumonia secondary to influenza A virus infection diverged from decreased expression of IL-1β</td>
<td>Yunfeng Shi (GuangZhou, China), Yunfeng Shi, Xiaoan Shi, Junhui Ba, Jingjing Liang, Jinmei Luo, Jianning Chen, Benquan Wu</td>
</tr>
<tr>
<td>2005</td>
<td>Late Breaking Abstract - Effect of a conservative approach to the start of mechanical ventilation on ventilator-free days in coronavirus disease 2019 (COVID-19) pneumonia after adjustment by inverse probability of treatment weighting.</td>
<td>Ricard Mellado Artigas (Barcelona, Spain), Bruno Ferreyro, Alfredo Gea, Jordi Mercadal, Gerard Angeles, Maria Hernández-Sanz, Carlos Ferrando</td>
</tr>
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</table>
Impact of early bronchoscopy in patients after out-of-hospital cardiac arrest
Jana Palm (Munich, Germany), Anna Lena Lahmann, Anna Berkefeld, Friedhelm Peltz, Rainer Okrojek, Florian Weis, Arne Müller, Alexander Steger, Johannes von Burstin, Hubert Hautmann, Gregor S. Zimmermann

Driving pressure variation in mechanical ventilation: Is it associated with ventilator associated events?
Huiqing Ge (Hangzhou (Zhejiang), China), Qing Pan, Ling Lin, Zhongheng Zhang

Diagnostic accuracy of drop-peroxide test to differentiate transudative and exudative pleural effusion
KOTTI PHANINDRA VASU (VISAKHAPATNAM, India), K V V Vijaya Kumar, Gurram Rajyalakshmi, Chinthu L.N. Yamini Priyanka

The syndrome of respiratory failure in acute stroke patients.
Tatiana Kim (Moscow, Russian Federation), Alexander Chuchalin, Eugeniy Gusev, Michail Martynov, Ludmila Shogenova, Alexander Panin

Effects of nebulized acetylcysteine plus salbutamol on endotracheal tube secretions accumulation: sub-study of a randomized controlled trial
Lorenzo Ball (Genova (GE), Italy), Sophia Van Der Hoeven, Federico Costantino, David M Van Meenen, Paolo Pelosi, Ludo F Beenen, Marcus J Schultz, Frederique Paulus

Impact of critical illness on expiratory and inspiratory muscle mass and function: a prospectively, observational study
Zhonghua Shi (Amsterdam, Netherlands), Annemijn H Jonkman, Heder J De Vries, Yingrui Zhang, Pieter Roel Tuinman, Leo M.A Heunks

SOFA (Sequential Organ Failure Assessment) Score As A Predictor Of Mortality In Ventilated Patients With Multi-drug Resistant Bacteremia
Min Ki Lee (Busan, Republic of Korea), Kwangha Lee

Nutrition practices in the medical intensive care unit in a tertiary hospital: an observational cohort study.
Mithi Kalayaan Zamora (Quezon City, Philippines), Jubert Benedicto, Vladimir Roque

Validity of ROX Index for Nasal High Flow Therapy in Critical Care
Raquel D’Espiney (London, United Kingdom), Joe Vincent, James Kelly, Vladimir Macavei, Juan Martin-Lazaro

Perception, experience and knowledge of early rehabilitation in Italian intensive care units: a survey
Simone Salvitti (Segni, Italy), Giulia Montigiani, Davide Papi

Lung-protective ventilation decreases heart rate variability in a non-inflammatory porcine model.
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Steve Reynolds

Is hypocapnia a risk factor for noninvasive ventilation failure in acute heart failure?
Gil Gonçalves (Lousada, Portugal), Luna Carrillo Aleman, Victor Martinez Perez, Pablo Bayoumy Delis, Angel Andres Agamez Luengas, Augusto Montenegro Moure, Laura Lopez Gomez, Aurea Higon Cañigral, Antonio Esquinas, Andres Carrillo Alcaraz

Percutaneous versus surgical technique for tracheostomy on adults patients in long-term mechanical ventilation: a rapid evidence synthesis
Silvia A T Weber (Botucatu, Brazil), Silvana Andrea Molina Lima, Erika Veruska Paiva Ortolan, Antonio Carlos Marão, Juliana Machado-Rugolo

Comparison of aerosol delivery of AccuMist and AeroEclipse II using a breath simulator
Ronnie Toddywala (Princeton, United States of America), Akanksha Hande, Vijay Shukla, Michael Newhouse

Risk Factors for Noninvasive Ventilation Failure in Acute Respiratory Failure with Pneumocystis jirovecii Pneumonia in Patients without Human Immunodeficiency Virus Infection
Mingming Wang (, China), Yunfu Wu, Shuoyao Xu, Xuemin Yang, Liqiang Song

**Pre-congress content**

**Session 145**

**E-poster session: Clinical challenges in pneumonia**

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

**Method(s):** Respiratory intensive care, Public health, Imaging, General respiratory patient care, Epidemiology, Palliative care, Pulmonary function testing, Cell and molecular biology, Pulmonary rehabilitation

**Chairs:** Tjip S. van der Werf (Groningen, Netherlands), Paola Faverio (Limbiate (MI), Italy)

**ERS 2020 International Congress**

**DETAILED PROGRAMME**

**MONDAY 24 AUGUST, 2020**

**137**

**Pre-congress content**

**Session 145**

**E-poster session: Clinical challenges in pneumonia**

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

**Method(s):** Respiratory intensive care, Public health, Imaging, General respiratory patient care, Epidemiology, Palliative care, Pulmonary function testing, Cell and molecular biology, Pulmonary rehabilitation

**Chairs:** Tjip S. van der Werf (Groningen, Netherlands), Paola Faverio (Limbiate (MI), Italy)

**2021**

**EFFICACY OF A BUNDLE FOR PREVENTION OF VENTILATOR ASSOCIATED PNEUMONIA IN AN ADULT INTENSIVE CARE UNIT**

Elisa Cristina Wendland Santos (Porto Alegre (RS), Brazil), Sofia Barilli, Crislene Zigiotto, Susi Carmona, Rodrigo Lippert
2022 PES Pathogens in Elderly Patients with Acquired Pneumonia in the Community
Catia Cilloniz Campos (Barcelona, Spain), Cristina Dominedò, Dievo Tovar, Jose Becerril, Albert Gabarrus, Antoni Torres

2023 Major concerns on the management of community-acquired pneumonia in adults and achievements of serial guideline training: a nationwide survey for Chinese physicians in 2018
Jing Zhang (Shanghai (Xuhui District), China), Wei-Ping Hu, Yi Huang, Jie-Ming Qu

2024 Risk factors for recurrence of fever in aspiration pneumonia
Nobuyoshi Hamao (Kyoto, Japan), Isao Ito, Naoya Tanabe, Satoshi Konishi, Masahiro Shirata, Issei Oi, Seiichiro Imai, Hisako Matsumoto, Toyohiro Hirai

2025 Ventilator associated pneumonia in surgical and medical icu’s in urban tertiary care centre hospital.
Theres Mathew (Kasuragod, (Kerala), India), Bajjayanti Mishra, Bipin Mathew

2026 Inappropriate Endotracheal Tube (ETT) cuff pressure and its relation to ventilator-associated pneumonia (VAP) in Intensive care unit (ICU).
Abdullah AlQahtani (Nottingham, United Kingdom)

2027 Growing importance of Gram-negative isolates in respiratory samples
Lucia Mendez Gonzalez (Santa Maria da Feira, Portugal), Adriana Pedrosa, Cátia Caneiras

2028 Bacteriological and clinical correlates of culture-positive parapneumonic community-acquired pleural infection
Ioannis Kalomenidis (Athens, Greece), Mariathni Illopoulou, Vasileios Skouras, Zoe Psaroudaki, Magda Makarouna, Evangelos Vogiatzakis, Eleni Tsorlini, Eleni Katsifà, Dionisios Spyroatos, Dimitra Siopi, Ourania Kotsiou, Stelios Xitsas, Efthymios Petinati, Maria Martoukou, Xanthi Tsiafaki, Vassiliki Filaditaki, Ioanna Sigala

2029 Characteristics of patients with serotype 5 pneumococcal pneumonia
Hannah Lawrence (Nottingham (Nottinghamshire), United Kingdom), Vadsala Baskaran, Harry Pick, Priya Daniel, Chaniara Rodrigo, Deborah Ashton, Rochelle Edwards-Pritchard, Carmen Sheppard, David Litt, Norman Fry, Samuel Rose, Tricia Mckeever, Wei Shen Lim

2030 Birmingham Community Acquired Pneumonia Severity score (BCAPS) is a better predictor of mortality than CURB65 in hospitalised patients with community acquired pneumonia
Frances Grudzinska (Birmingham, United Kingdom), Peter Nightingale, David Thickett, Davinder Dosanjh

2032 Risk factors for methicillin-resistant Staphylococcus aureus isolation from serially obtained sputum in patients hospitalized with pneumonia
Masahiro Shirata (Kyoto, Japan), Isao Ito, Naoya Tanabe, Satoshi Konishi, Issei Oi, Nobuyoshi Hamao, Seiichiro Imai, Hisako Matsumoto, Toyohiro Hirai

2033 Pneumonia impact on the flow and the outcome at patients with seasonal influenza
Marija Cvetanovska (Skopje, North Macedonia), Zvonko Milenkovic, Krsto Grozdanovski, Ilir Demiri, Katerina Spasovska, Vlatko Cvetanovski

2034 Use of ATS/IDSA severe pneumonia minor criteria to improve emergency department patient disposition: effect on 30-day mortality and resource utilization
Jason Carr (Salt Lake City, United States of America), Allison Butler, Al Jephson, Samuel Brown, Nathan Dean

2035 The dynamics of antibiotic resistance of nasopharyngeal pneumococcus isolates in children in Moscow for 2010-2018
Anna Lazareva (Moscow, Russian Federation), Natalya Alyabyeva, Ekaterina Brzhozovskaya, Olga Shamina
**Disease(s):** Airway diseases

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

**Chairs:** Cecilia K. Andersson (London, United Kingdom), Hannu Kankaanranta (Seinäjoki, Finland)

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**Exercise moderates inflammation in asthma through increased redox buffering capacity**
Anna Freeman (Southampton, United Kingdom), David Hill, Dorianna Cellura, Cosma Mirella Spalluto, Bernadette Fernandez, Magda Minmon, Helen Moyses, Martin Feilisch, Sandy Jack, Karl J Staples, Mike Grocott, Tom M A Wilkinson

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**Inhibition of VEGF and MMP-9 production by Pregabalin in human immunocompetent cells in vitro**
Fatemeh Hajighasemi (Tehran, Islamic Republic of Iran), Leila Darouni

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**Viral induced epithelial antimicrobial defense in human asthma may depend on HDM exposure as well as HDM atopy**
Samuel Cerps (Lund, Sweden), Hamid Akbarshahi, Sangeetha Ramu, Mandy Menzel, Cecilia Andersson, Morten Hvidfeldt, Asger Sverrild, Celeste Porsbjerg, Lena Uller

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**Disturbance in bacterial community composition affects inflammatory ambiance and structural changes in non-Th2 asthma.**
Anna Konishecheva (Moscow, Russian Federation), Valentina Gervazieva, Tatyana Ospelnikova

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**Different patterns of mast cell activation and smooth muscle contractions by MRGPRX2 agonist and antigen in guinea pig trachea**
Jielu Liu (Solna, Sweden), Johan Kolmert, Jesper Säfholm, Craig E. Wheelock, Sven-Erik Dahlén, Gunnar Nilsson, Mikael Adner

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**IL13, IL31 and IL33 gene polymorphisms in moderate-to-severe asthma in Siberian children**
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Marina Smolnikova, Sergey Tereshchenko

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**Bone marrow derived dendritic cell (BMDC) adoptive transfer alleviate OVA-induced allergic airway inflammation in asthmatic mice**
Zhihong Chen (Shanghai, China), Kan Xu, Nan Wu, Zhihui Min, Zhiqong Jiang

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**Mepolizumab decreases urinary excretion of LTE4 in severe asthma**
Valentina Yasinska (Ronninge, Sweden), Johan Kolmert, Javier Zurita, Alessandro Quaranta, Apostolos Bossios, Nikolaos Lazarinou, Barbro Dahlén, Craig E. Wheelock, Sven-Erik Dahlén, on behalf of The Biocross Study Group

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**Salvia plebeia R. B. extract alleviated lung inflammation in steroid-resistant asthma via the immunostimulatory activity**
Min-Jung Bae (Republic of Korea), Kyung Bae Lee, Jung Min Bae, In-Bong Song, Yung Jeong Shin, A Ram Yu

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**Inhibition of Mast Cell Degranulation by Surfactant Protein D**
Mohammad Leily (Southampton, United Kingdom), Patrick Trimby-Smith, Rose-Marie Mackay, Laurie Lau, Andrew Walls

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**Neutrophil-to-lymphocyte ratio in patients with bronchiectasis and its correlation with low-grade inflammation; preliminary results from a single tertiary center.**
Pia Ghosh (Stockholm, Sweden), Ingrid Gerhardson, Barbro Dahlen, Apostolos Bossios

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**Allergen activates eosinophils of atopic bronchial asthma patients via IgE-mediated mechanism.**
Rustem Fassakhov (Kazan (Republic of Tatarstan), Russian Federation), Sergei Boichuk

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**The influence of the allergen-specific immunotherapy (ASIT) against the backdrop of an immunomodulator in patients suffering from seasonal allergic rhinitis (SAR) on the level of cytokines, IgE and IgG.**
IELIENA KORETSKAIA (Kiev, Ukraine), Yevgeniya Dytyatkovska

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**Roles of sensitization to Staphylococcal enterotoxin in patients with bronchiectasis**
Chie Morimoto (Kyoto, Japan), Hisako Matsumoto, Tsuyoshi Oguma, Susumu Sato, Isao Ito, Mariko Kogo, Natsuko Nomura, Noriyuki Kishina, Hironobu Sunadome, Toyohiro Hirai

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**Development and characterisation of a multi-species COPD biofilm**
Bryn Short (Glasgow, United Kingdom), Craig Williams, Gary Litherland, Fionnuala Lundy, William Mackay, Gordon Ramage

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**Protein expression of TRP channels in the esophagus of patients with gastroesophageal reflux (GER)-associated cough**
Norihisa Takeda (Nagoya, Japan), Takashi Ueda, Jennifer Maries Go Yap, Hirono Nishiyama, Ryota Kurokawa, Kensuke Fukumitsu, Yoshihiro Kanemitsu, Eiji Kubota, Takeshi Kamiya, Masaya Takemura, Akio Niimi

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**Completed autophagy protected airway epithelial barrier from antigens stimulation**
Zicong Zhou (Guangzhou, China), Changhui Yu, Shaoxi Cai
Photobiomodulation acting as an immunotherapeutic strategy for chronic obstructive diseases such as asthma and COPD

Cristiano Rodrigo De Alvarenga Nascimento (Juiz De Fora (MG), Brazil), Auriléia Aparecida De Brito Léia, Tawany Gonçalves Santos, Karine Zanela Herculano, Stephanie Soares, Renata Kelly Da Palma, Ana Paula Ligeiro-Oliveira

Immunodeficiency associated bronchiectasis in the European Bronchiectasis Registry (EMBARC)

Philip Mitchelmore (Exeter (Devon), United Kingdom), Eva Polverino, Jessica Rademacher, Charles Haworth, Anthony De Soyza, Michal Shiteinburg, Amelia Shoemark, Josje Altenburg, James D Chalmers, Katerina Dimakou, Michael R Loebinger, Antoni Torres, Tobias Welte, J Stuart Elborn, Pieter C Goeminne, Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre-Regis Burgel, Felix Ringshausen, Javier De Gracia, Isabelle Meyts, Montserrat Vendrell

Extrinsic and intrinsic airway obstruction is related to different airway smooth muscle phenotypes

Marisol Alvarez-Gonzalez (Mexico), Mayra Alvarez-Santos, Ivonne Pacheco-Alba, Elizabeth Eslava-De Jesus, Angel Gonzalez-Lopez, Rodrigo Rojas-Madrid, Yazmin Perez-Del Valle, Blanca Margarita Bazan-Perkins

Pre-congress content Session 147 00:00 - 23:59

E-poster session: Mechanism or pathways of chronic lung diseases

Disease(s): Airway diseases, Respiratory critical care, Pulmonary vascular diseases
Method(s): Epidemiology, Pulmonary function testing, Cell and molecular biology, General respiratory patient care, Imaging
Chairs: Alexandru Corlateanu (Chisihau, Republic of Moldova), Radostina Cherneva (Sofia, Bulgaria)

Eosinophilic asthma phenotypes in the UK population

Marjan Kerkhof (Norfolk, United Kingdom), Trung Tran, James Zangrilli, Victoria Carter, David Price

Evaluation of Serum Chitotriozidase Activity and C - reactive protein and Albumin Ratio in Cystic Fibrosis and Bronchopulmonary Dysplasia

Fatma Nazan Çobanoğlu (Ankara, Turkey), Elif Kelestemur, Ozlem Ceylan Dogan, Tuba Eminoglu

Dual-energy CT-derived microvascular perfused blood volume and lung function and %emphysema in the MESA Lung study

Emilia Hermann (NEW YORK, United States of America), Grant Hiura, Eric Hoffman, Amin Motahari, Junfeng Guo, Norrina Allen, Alain Bertoni, David Bluemke, Jim Pankow, Erin Michos, Karen Hinckley Stukovsky, Karol Watson, Graham Barr

Serum testosterone and asthma outcomes in two large population-based studies

Erick Forno (Pittsburgh, United States of America), Yueh-Ying Han, Qi Yan, Ge Yang, Wei Chen, Juan C. Celedón

The mediating role of C-reactive protein (CRP) and insulin resistance in the association of mid-childhood fat mass and airflow limitation at 15 years

Judith Garcia Aymerich (Barcelona, Spain), Gabriela P. Peralta, Raquel Granell, Annabelle Bédard, Laura Howe, Anne-Elie Carsin, Deborah Jarvis

Somatotypes trajectories during adulthood and its association with COPD phenotypes

Miguel Divo (Boston, United States of America), Marta Marin Oto, Ciro Casanova, Carlos Cabrera Lopez, Juan Pablo De-Torres, Jose M. Marin, Craig Hersh, Ana Ezponda, Victor Pinto-Plata, Francesca Polverino, James Ross, Dawn Demeo, Gorka Bastarrrika, Edwin Silverman, Bartolome Celli

Metabolic syndrome and visceral adipose tissue (VAT) are associated with obstructive and restrictive lung function impairment.

Alina Ofenheimer (Wien, Austria), Robab Breyer-Kohansal, Sylvia Hartl, Otto C. Burghuber, Julia Altziebler, Andrea Schrott, Frits M.E. Franssen, Emiel F.M. Wouters, Jürgen Harreiter, Alexandra Kautzky-Willer, Marie-Kathrin Breyer

Lung function in adult offspring as associated with their father’s overweight in childhood/puberty

Marianne Lønnebotn (Bergen, Norway), Lucia Calciano, Simone Accordini, Bryndis Benediktsdottir, Lennart Bråbäck, Mathias Holm, Nils Oskar Jogi, Ane Johannessen, Andrei Malinovschii, Antonio Pereira-Vega, Vivi Schlünsen, Shyamali Dharmage, Francisco Gómez Real, Cecilia Svanes

Systemic proteolytic markers are increased and associate with comorbidities in individuals with COPD and restrictive spirometric pattern

Ulf Nilsson (Umeå, Sweden), Viktoria Pleiborn, Robert Linder, Helena Backman, Annelie Behndig, Anne Lindberg, Anders Blomberg

Guilty pleasures and the healthy lung microbiota

Solveig Tangedal (Bergen, Norway), Rune Nielsen, Marianne Aanerud, Gunnar Husebo, Harald Wiker, Per Bakke, Tomas Eagan
1. Radiologic assessed rhinosinusitis, eosinophils and lung function in a population-based cohort of elderly, a comparison of subjects with and without asthma

Emmely W. de Roos (Rotterdam, Netherlands), Johnmary Arinze, Lies Lahousse, Guy Brusselle

2. Experience of measuring nasal nitric oxide (nNO) in a National Primary Ciliary Dyskinesia (PCD) Centre (2006-20)

Amanda Lea Harris (Southampton (Hampshire), United Kingdom), Hang Phan, Florina Borca, Samantha Packham, Amanda Friend, Hannah Wilkins, Amy Glen, Woolf Walker, Jane Luças

3. The impact of sensitization to Staphylococcus aureus-derived enterotoxins on allergic and respiratory disorders

Mario Olivieri (Verona (VR), Italy), Nicola Murgia, Nadia Antonucci, Pierpaolo Marchetti, Gianluca Spiteri, Marcello Ferrari, Giuseppe Verlato

4. Characteristics of new users of aclidinium, aclidinium/formoterol, and other COPD medications in three European countries

Cristina Rebordosa (Barcelona, Spain), Cristina Rebordosa, Annalisa Rubino, Anna Julia Witzleb, Morten Olesen, Estel Planas, Jaume Aguado, Nuria Saigi, Sami Z Daoud, Alejandra Lei, Susana Perez-Gutthann, Tania Schink, Nina S Kristiansen, Anton Pottegard, Elena Rivero-Ferrero

5. Serum anti-Ascaris IgG concentration and lung function in a multi-centre Northern-European cohort

Nils Oskar Jogi (Tallinn, Estonia), Randi Jacobsen Bertelsen, Torgeir Storaas, Vivi Schlünssen, William Horsnell, Cecilie Svanes

6. hsCRP is associated with 10-year mortality in COPD.

Eva Lagrange (Sundsvall, Sweden), Ulf Nilsson, Caroline Stridsman, Helena Backman, Linnea Hedman, Anne Lindberg, Anders Blomberg

7. Presence of serum antibodies anti-benzo(a)pyrenediol epoxide (BPDE-DNA) and tobacco smoking as predictors of respiratory outcomes

Francesco Pistelli (Pisa (PI), Italy), Sara Maio, Sandra Baldacci, Laura Carrozzi, Giovanni Viegi

8. Secondary pulmonary mycoses etiology agent species diversity in patients with tuberculosis and in patients with HIV infection

Alexandra Gracheva, Anna Panova, Anatoliy Vinokurov, Olga Lovacheva, Grigory Kaminskiy, Irina Vasilyeva


Dóra Paróczai (Deszk, Hungary), Dávid Kókai, Áron Ulbert, Gabriella Terhes, Katalin Burián

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18. Prevalence of Chlamydia pneumoniae antibodies in Southern Hungary

Dóra Paróczai (Deszk, Hungary), Dávid Kókai, Áron Ulbert, Gabriella Terhes, Katalin Burián

19. Radiologic assessed rhinosinusitis, eosinophils and lung function in a population-based cohort of elderly, a comparison of subjects with and without asthma

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Amanda Lea Harris (Southampton (Hampshire), United Kingdom), Hang Phan, Florina Borca, Samantha Packham, Amanda Friend, Hannah Wilkins, Amy Glen, Woolf Walker, Jane Luças

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Mario Olivieri (Verona (VR), Italy), Nicola Murgia, Nadia Antonucci, Pierpaolo Marchetti, Gianluca Spiteri, Marcello Ferrari, Giuseppe Verlato

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Nils Oskar Jogi (Tallinn, Estonia), Randi Jacobsen Bertelsen, Torgeir Storaas, Vivi Schlünssen, William Horsnell, Cecilie Svanes
2084 Randomized Phase III Trial Assessing Regional Lung Function for Lung Transplant by Hyperpolarized 129Xenon Gas MRI
Bastiaan Driehuys, Jaime Mata, Matthew Hartwig, Alejandro Aragaki-Nakahodo, Ken West, Kiarash Emami, Neil Wadehra, Zackary Cleveland, Laura Walkup, Jason Woods, Alex Dusek, John Mugler, Yun Shim

2085 Functional Respiratory Imaging (FRI) shows significant regional ventilation defects in COPD patients as compared to healthy data
Maarten Lanchus, Stijn Bonte, Cedric Van Holsbeke, Jan De Backer

2086 The inspiratory and expiratory CT based COPD phenotypes using cluster analysis
Yumiko Matsuo, Emiko Ogawa, Akio Yamazaki, Satoru Kawashima, Yasuki Uchida, Hiroaki Nakagawa, Daisuke Kinose, Masafumi Yamaguchi, Yasutaka Nakano

2087 Effect of Lung Inflation State on Ventilation Defect Percent Measured using Hyperpolarized 129Xe MRI
Wallace Wee, Brandon Zanette, Marcus Couch, Elaine Stirrat, Yonni Friedlander, Daniel Li, Samal Munidasa, Sharon Dell, Felix Ratjen, Giles Santyr

2088 Development of Cone Beam CT navigation method for segmental resection in patients with early lung cancer.
Masaki Kashihara, Masahiro Mitsuoka, Tatsuya Nishi, Toshihiro Hashiguchi, Shinzo Takamori, Yoshito Akagi

2089 Cardiac MRI for Prognosis in Pulmonary Arterial Hypertension: A Systematic Review and Meta-Analysis
Samer Alabed, Faisal Alandejani, Yousef Shahin, Jim Wild, Andy Swift

2090 Benchmarking inhaled nanoparticle measurements of airspace dimension with hyperpolarised 129Xe diffusion-weighted MRI
Ho-Fung Chan, Madeleine Petersson Sjögren, Paul Hughes, Oliver Rodgers, Guilhem Collier, Graham Norquay, Lars Olsson, Per Wollmer, Jim Wild, Jakob Löndahl

2091 Reproducibility of 3He-MRI acquisition assessed by a deep learning approach: ventilation defects in the VaPE-Tox pilot study
Grant Huira, Xuzhe Zhang, Yanping Sun, Martin Prince, Steve Dashnaw, Emlyn Hughes, Wei Shen, Elizabeth Oelsner

2092 3D PREFUL: Novel high resolution dynamic lung ventilation imaging in patients with asthma, cystic fibrosis and COPD and healthy volunteers
Filip Klimes, Andreas Voskrebenzev, Marcel Gutberlet, Robert Grimm, Hendrik Suhling, Tobias Welte, Frank Wacker, Jens Vogel-Claussen

2093 Prospective Assessment of Collateral Ventilation using Chartis and Fissure Integrity by Quantitative Computed Tomography
Valentina Luzzi, Mauro Novali, Brian Armstrong, Michela Bezzi

2094 Quantitative Assessment of Regional Compliance and Resistance in a Mouse Model of Emphysema with micro-Computed Tomography
Marc Kaestle, Christoph Corin Willers, Kamal Shahim, Kathryn Ramsey, Philipp Latzin

Pre-congress content Session 149 00:00 – 23:59
E-poster session: Screening methods and diagnostic tools for obstructive sleep apnoea
Disease(s): Sleep and breathing disorders
Method(s): General respiratory patient care Epidemiology Pulmonary function testing Physiology
Chairs: Renata L. Riha (Edinburgh, United Kingdom), Stefan A. Mihaicuta (Timisoara (Timis), Romania)

2097 Validation of names-bg score in screening of patients with obstructive sleep apnea
Heba Gharraf, Ayman Baess

2098 Comparison between Level 3 Sleep Study and Peripheral Arterial Tonometry for Sleep Apnea (SA) diagnosis
Frédéric Mathias de Oliveira, Analine Moura, Carla Vieira, Elsa Miranda, Pedro Martins, Margarida Dias, Nuno Cortesão
**Prospective validation of a Bayesian network model in the diagnosis of Obstructive Sleep Apnea: preliminary results**
Pedro Amorim (Porto, Portugal), Daniela Ferreira-Santos, Marta Drummond, Pedro Pereira Rodrigues

**A comparison of automated and manual sleep staging and respiratory event recognition in a portable sleep diagnostic device with in-lab sleep study**
Hartmut Schneider (Lutherville, United States of America), Zhigang Zhang, Alan Schwartz

**The expression of sleep apnea severity and central related sleep apnea in ECG-based cardiopulmonary coupling**
Zhilong Zhao (Beijing, China), Xiheng Guo

**Variability of OSA severity classification between two multiple-night sleep studies**
Charlotte Wigston (Oxford (Oxfordshire), United Kingdom), John Stradling, Chris Tumbull

**Weighted Epworth sleepiness scale predicted the apnea-hypopnea index better**
Qi Guo, Wei-Dong Song, Wei Li, Chao Zeng, Yan-Hong Li, Jian-Ming Mo, Zhong-Dong Lü, Mei Jiang

**Deep Breathing Test Can Help To Identify Subjects With Obstructive Sleep Apnea**
Mwetty Onanga (Paris, France), Elisa Perger, Isabelle Arnulf, Caroline Sevoz-Couche, Stefania Redolfi

**Predictive ability of NOSAS score and STOPBANG score in identifying Obstructive Sleep Apnea**
Vulli Venkatesh (Vizianagaram, India), Akula Anusha, Jana Kundan Raja

**Knowledge of sleep disorders among physicians at a tertiary care hospital in Qatar**
Irfan Ul Haq (Doha, Qatar), Mansoor Ali Hameed, Abbas Abdallah Alabas, Shakeel Ahmed, Khezar Shahzada Syed, Merlin Marry Thomas, Mushtaq Ahmad

**Knowledge and attitude of obstructive sleep apnoea among junior doctors**
Suman Banerjee (Bankura, India), Susmita Kundu, Rivu Basu

**Screening for obstructive sleep apnea (OSA) in acromegaly**
Cinzia Arena (Catania, Italy), Martina Tubiolo, Valentina Guarnotta, Carla Giordano, Maria Rosaria Bonsignore

**Impulse oscillometry for evaluating apnea, hypopnea and desaturation severity in patients with suspected Obstructive Sleep Apnea - pilot study**
David Jorge Araújo Barros Coelho (Braga, Portugal), Ricardo Estêvão Gomes, Pedro Amorim, Marta Drummond

**Do not go with just the flow: machine learning in oximetric versus flow-based sleep apnoea scoring**
Neil Skjodt (Lethbridge (AB), Canada), Vidisha Pahwa, Ronald S. Platt

**Diagnostic efficacy of the KaLinix® intelligent medical device for diagnosis of obstructive sleep apnea and hypopnea syndrome.**
Gianna Vargas Centanaro (Madrid, Spain), Soha Esmaili, J. Luis Rodriguez Hermosa, Myriam Calle, J Montero, N. Raissouni, J. Alvarez-Sala

**Performance of STOP-BANG questionnaire in bariatric surgical patients**
Peter Cho (, United Kingdom), Alice Byrne, Claire Wood, Kai Lee, Rebecca Lyall, Amit Patel

**Validation study of an innovative device to screen sleep respiratory disorders**
Alberto Braghiriolo (Veruno (NO), Italy), Carlo Sacco, Andrea Giordano, Massimo Godio, Fabio Rossato, Sabrina Rossi, Sonia Carli, Bruno Balbi, Elisa Morrone

**Impact of cardiorespiratory sleep staging for home sleep apnea testing**
Peter Anderer (Wien, Austria), Marco Ross, Andreas Cerny

**Automatic discrimination between obstructive and central sleep apnea using pulse oximetry**
Minke Holleboom (Enschede, Netherlands), Timon Fabius, Michiel Eijsvogel, Job Van Der Palen, Frans De Jongh

**Impact of a 3% oxygen desaturation threshold compared to 4% on hypopnoea scoring and classification of sleep apnea in a bariatric population**
Christian Horvath (Bern, Switzerland), Anne-Kathrin Brill, Matthias Erzl, Sebastian Ott

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**Pre-congress content**

Session 150 00:00 - 23:59

**E-poster session: New insights into sleep apnoea: from diagnosis to treatment**

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

**Method(s):** General respiratory patient care, Epidemiology, Public health, Physiology, Pulmonary rehabilitation, Pulmonary function testing, Cell and molecular biology, Imaging

**Chairs:** Sébastien Baillieul (Grenoble CEDEX 9, France), Renaud Tamisier (Grenoble, France)
2117 Prediction of obstructive sleep apnea using a morphologic score: A SAGIC Study
Sebastian Herberger (Berlin, Germany), Naima Laharnar, Lisa Prochnow, Peter Cistulli, Allen Pack, Ingo Fietze, Thomas Penzel

2118 Mandibular restriction measured by three-dimensional Computed Tomography is associated with obstructive sleep apnea severity
Susanna SS Ng (Hong Kong, Hong Kong), Tat-On Chan, Karen Yiu, Richard Lee, David Hui

2119 Evolution of Sleep Apnea in Acute Coronary Syndromes
Matteo Siciliano (Roma (RM), Italy), Pier-Valerio Mari, Veronica Melita, Giovanni Diana, Davide Diana, Enrico Schiavi, Gaetano Antonio Lanza, Filippo Crea, Giampaolo Niccoli, Flaminio Mormile

2120 NREM sleep stages are associated with A842 and Tau in Obstructive Sleep Apnea.
Yi-Shin Liu (Taipei, Taiwan), Wen-Te Liu, Shang-Yang Lin, Shu-Chuan Ho

2121 NoSAS: a possible screening questionnaire in patients with OSA and comorbidities
Elisa Morrone (gattico-Veruno (NO), Italy), Andrea Giordano, Sonia Carli, Fabio Rossato, Tullia Villani, Elena Paracchini, Massimo Godio, Bruno Balbi, Carlo Sacco, Alberto Braghiroli

2122 Right ventricular remodeling in obstructive sleep apnea patients
Touil Imen (Mahdia, Tunisia), Keskes Boudawara Nadia, Bouchareb Soumaya, Ibn Hadj Amor Hassen, Chebbi Riheb, Hasnaoui Mohamed Taha, Nemsi Ela, Ben Romdhane Raja, Ben Rhouma Chaima, Bouchnak Iskander, Knani Jalel, BousoflTa Lela

2123 Role of Screening questionnaires for diagnosing sleep disordered breathing in Pregnancy
Debraj Jash (Kolkata (West Bengal), India), Savita Singhal, Manjunath Govindagoudar, Sushmita Jakka, Diksha Tyagi, Pawan Singh, Dhruba Chaudhry

2124 Role of overnight pulse oximetry as screening tool for sleep disordered breathing in pregnancy
Dhruba Chaudhry (Rohtak (Haryana), India), Debraj Jash, Savita Singhal, Manjunath B G, Jaikrit Bhutani, Diksha Tyagi

2125 Study of Leptin and Ghrelin Serum Levels in Patients with Obstructive Sleep Apnea
Heba Gharrar (Alexandria, Egypt), Mostafa Shahin, Abeer Alhadidy

2126 What anthropological and behavioural factors are influencing the tracheal diameter?
Laura Ciobanu (Iasi (Iasi), Romania), Vasile Maciuc, Andreea Obreja

2127 Relationship of respiratory disorders of sleep with cognitive impairment and neurological diseases
Marcos Alejandro Escobar Penagos (Tuxtla Gutiérrez (Chiapas), Mexico), Fernanda Margarita Nuñez Gómez, Marely Bravo Muñoz

2128 Heterozygous SOD2 deletion deteriorated chronic intermittent hypoxia-induced lung inflammation and vascular remodeling through mtROS-NLRP3 signaling pathway
Shengyu Hao (Shanghai, China), Shanqun Li, Cuiping Fu

2129 Interim analysis of the effect of portable NIV (pNIV) on thoracoabdominal volumes during intermittent exercise in COPD
Nikolaos Chynkiamis (Newcastle Upon Tyne, United Kingdom), James Manifield, Dimitrios Megaritis, Charikleia Alexiou, Ioannis Loizou, Nick D. Lane, Stephen C Bourke, Ioannis Vogiatzis

2130 Respiratory rate and tidal volume change with posture and activity during daily life
Alessandra Angelucci (Milano, Italy), David Kuller, Andrea Aliverti

2131 Agreement between different oximetric sensors during exercise in chronic respiratory diseases: a pilot study.
Brenda Elena Varela (Ciudad Autónoma Buenos Aires, Argentina), Gonzalo Manuel Castaño, María Paz Menéndez, Patricia Mabel Ibañez, Ana Beltrán Arce, Carlos Alberto Nigro

2132 Clinical usefulness of End-Tidal CO2 measured by a novel portable capnograph in patients with respiratory disease
Manabu Suzuki (Tokyo, Japan), Shota Fujimoto, Yuriko Horikawa, Yuriko Ueki, Hiroshi Takumida, Hirokazu Arai, Hiromu Watanabe, Yusaku Kusaba, Takashi Katsuno, Shuichiro Matsumoto, Tamaki Kawata, Yoshie Tsujimoto, Keita Sakamoto, Masao Hashimoto, Satoru Ishii, Junko Terada, Jin Takasaki, Go Naka, Motoyasu Ikura, Shin'yu Izumi, Yuichiro Takeda, Masayuki Hojo, Haruhito Sugiyama

2133 Assessing the accuracy of transcutaneous capnography in adults
Gergely H. Fodor (Szeged, Hungary), Almos Schranc, Szlard Szucs, Ferenc Petak, Barna Babik

2134 Nocturnal transcutaneous capnography in obesity hypoventilation syndrome: a correlation and agreement study
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), José Rafael Terán Tinedo, Daniel López-Padilla, Christian Castro Riera, Elena Ojeda Castillo, Soledad López Martín, Francisco José Caballero Segura, Luis Puente Maestu

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
E-poster session: Treatment of obstructive sleep apnoea and its effects

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

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

Chairs: Özen K Basoglu (Izmir, Turkey), Dries Testelmans (Leuven, Belgium)

2135 How effective is Adaptive Servo Ventilation?
Elliott Dewsbury (Coventry (West Midlands), United Kingdom), James Shipley, Milind Sovani, Arun Khanna

2136 Air trapping by excessive work of overnight breathing in OSA
Kenji Yazaki (Yuri-Honjo, Japan), Naoko Kamada

2137 EFFECT OF ADENOTONSILLECTOMY ON OXIDATIVE DNA DAMAGE LEVELS IN CHILDREN WITH OBSTRUCTIVE SLEEP APNEA
Vural Fidan (Eskisehir, Turkey), Handan Koyuncu, Hakan Alp

2138 Starting CPAP therapy with empirical pressure; predictors of titrating pressure using Auto-CPAP
Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Amaia Urrutia Gajate, Elena Garay Llorente, Joseba Andia Iturrate, Leyre Serrano Fernandez, Marta Garcia Moyano, Beatriz Gonzalez Quero, Valentin Cabriada Nuño

2139 Usefulness of transcutaneous capnography to evaluate nocturnal hypoventilation in patients with obesity hypoventilation syndrome treated by non-invasive ventilation at home
Thomas Georges (Nantes, France), Sandrine Jaffré, Jean Morin, Hakim Alami, Cédric Bretonnière, Béatrice Guyomarch, Agathe Delbove, Laurie Lagache

2140 Nasal vs. oronasal mask: a real-life analysis in adults undergoing auto-adjusting CPAP titration.
Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Lopes Figueiredo, Mariana Calheiros Cabral, Maria Alexandra Mineiro, Ricardo Luiz De Menezes Duarte, João Almeida Cardoso, Flávio José Magalhães Da Silveira

2141 The effect of CPAP withdrawal on urinary androgen metabolites
Christopher Turnbull (Oxford (Oxfordshire), United Kingdom), Jonathan Hazlehurst, Jeremy Tomlinson, John Stradling

2142 CPAP improves social, emotional and sexual scope of obstructive sleep apnea patients and partners.
Maria Isabel Portela Ferreño (Pontevedra, Spain), Tania Rivera Baltanas, Mar Mosteiro Añón, Jessica Iglesias Novas, Helena Santamaría Lopez, Johann Vargas Rodriguez, Sara Fernandez Garcia, Laura Souto Sayar, Alberto Fernandez Villar

2143 Liver stiffness in patients with obstructive sleep apnoea: preliminary results from a longitudinal cohort study
Francesco Zaccaria (, Italy), Adriano Costigliola, Miriam Buonincontro, Samuel Scuotto, Rosalba Donizzetti, Mariano Mollica, Stefano Sanduzze Zamparelli, Viito D’Agnano, Fabio Perrotta

2144 Satisfaction among sleep apnea patients: telematic compared with conventional follow-up
Cristina Matesanz Lopez (Madrid, Spain), Sara Calero Pardo, Israel John Thuissard Vasallo, David García Gómez, Araceli Abad Fernández

2145 Titration of the intra-oral negative air pressure in treating the patient with obstructive sleep apnea
Chia-Mo Lin (Taipei, Taiwan), Chia-Chi Chen, Chen Lin

2146 Serum vitamin D levels in patients with obstructive sleep apnea syndrome and concentration changes after continuous positive airway pressure treatment
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Chaido Pastaka, Chrissi Hatzoglou, Maria Kechagia, Vasileios Stavrou, Eudoxia Gogou, Charalampos Varsamas, Nicholas-Tiberio Economou, George Seitandis, Konstantinos Gourgoutianis

2147 Kal inix® in the treatment of Obstructive Sleep Apnea-Hypopnea syndrome (OSAHs).
Soha Esmaeil (, Spain), Gianna Vargas Centanaro, Juan Luis Rodriguez Hermosa, Jose Luis Álvarez-Sala, Nada Raissouni, Myriam Calle Rubio

2148 Effect of CPAP adherence on depression in OSA patient
Diana-Raluca Velescu (Timisoara (Timis), Romania), Monica Marc, Daniel Trăilă, Cristian Oancea

2149 Effect of multiple-dose treatment with daridorexant on nighttime respiratory function in patients with mild and moderate obstructive sleep apnea (OSA)
Marie-Laure BOOF (ALLSCHWIL, Switzerland), Ingo Fietze, Katharina Lederer, Mike Ufer, Jasper Dingemanse

2150 Do beta-blockers reduce sympathetic activity in patients with mild sleep breathing disorder without CPAP therapy?
Ali Araghi (Alpharetta, United States of America), Mahsa Mirdamadi, Mahmood Fathollahi
**Phenotypes related to long term renal function decline and mortality in adult OSA.**
Patrizia Pochetti (Quarona (VC), Italy), Danila Azzolina, Beatrice Ragnoli, Paolo Amedeo Tillio, Vincenzo Cantaluppi, Mario Malerba

**Does chronic opioid use impact OSA diagnosis and response to treatment with CPAP?**
Mary Qian (Mount Waverley, Victoria, Australia), Kieran Lee, Earl Palas, Susan George, Ying Huang, Safin Rahman, Na Li, Darren Wong, Martina Mason, Ian Smith

**Overlap of OSA and Obstructive Airways Disease in Indian population: Does treating the underlying airflow obstruction improve OSA control?**
Tarang Kulkarni (Mumbai (Maharashtra), India), Sovan Kanti Chakraborty, Shubham Sharma, Milind Sovani, Raja Dhar

**Effect of Short Term Use of PAP Treatment on Metabolic Parameters in Patients with Obstructive Sleep Apnea**
Nazli Deniz Atik (IZMİR, Turkey), Sezai Taşbakan, Özen Kaçmaz Başoğlu

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**Pre-congress content**
**Session 152**

**E-poster session: Advances in lung function practice**

**Disease(s):** Airway diseases, Interstitial lung diseases, Thoracic oncology, Respiratory critical care, Sleep and breathing disorders

**Method(s):** Pulmonary function testing, Physiology, Public health, Respiratory intensive care

**Chairs:** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Jane Kirkby (Sheffield, United Kingdom)

**Is the pre-flight algorithm for COPD patients also valid for patients with ILD?**
Liv Karin Vesteng (Jessheim, Norway), Christine Gudim Karlsen, Anne Edvardsen

**Hypoxic Challenge Testing in Infants; who is recommended in-flight oxygen?**
Emma Fettes (London, United Kingdom), Mollie Riley, Aidan Laverty, Paul Aurora

**The potential role of pre-operative cardiopulmonary exercise testing in endovascular aortic repair.**
Elizabeth Dobson (Coventry, United Kingdom), Edward Parkes, Joanna Shakespeare, Ruth Benson, Christopher Imray, David G. Parr

**Incidence of clinically significant ECG abnormalities in healthy volunteers participating in cardio-pulmonary exercise research.**
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, Iuri Mata, David G Parr

**Peak heart rate to assess maximal exercise in arm ergometry.**
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr

**CARDIOPULMONARY EXERCISE TESTING PREDICTING POSTOPERATIVE MORBIDITY IN PATIENTS WITH PULMONARY RESECTION**
Carolina España Dominguez (Cádiz, Spain), Maria Morales González, Alfonso Marín Andreu, Aurelio Arnedillo Muñoz, Isabel Muñoz Ramírez

**The use of biological control subjects in the quality control of cycle ergometry.**
Kevin De Soomer (Edegem, Belgium), Evelyn Pauwels, Ellie Oostveen

**Six-minute walk test in children and Adolescents. Selection of Reference Equations**
Ana Silva (Queluz, Portugal), Andreia Descaço, Angela Martins, Angela Drago, Carolina Constant, Teresa Bandeira

**Comparative assessment of the incremental shuttle walk and incremental cycle ergometry tests in patients with idiopathic pulmonary fibrosis.**
Elizabeth Dobson (Coventry, United Kingdom), Joanna Shakespeare, David G. Parr

**Type 2 Diabetes Accentuates the Impairment in the Lung Function and Mechanics in Elderly**
Renilson Moraes Ferreira (São José dos Campos, Brazil), Maysa A. R. Brandao-Rangel, Anamei Silva-Reis, Victor Hugo S. Palmeira, Claudio Frison, Rodolfo P. Vieira

**Culturally appropriate Indigenous spirometry training and telehealth mentoring improve spirometry quality**
Margaret McEirea (Foreshdale, Australia), Leanne Rodwell, Lauren Jones, Anne Bernard, Irene Schneider

**Reliability of inspiratory capacity assessment**
Tjerk Berens (Nijmegen, Netherlands), Denise Mannee, Bram Van Den Borst, Hanneke Van Helvoort

**FENO and spirometry for the assessment of respiratory functions of women exposed to biomass fuel smoke: A cross sectional study in Sri Lanka**
Gihani Jayaweera (Ratmalana, Sri Lanka), Savithri Wimalasekera, Sampatha Goonewardena
Pre-congress content Session 153 00:00 - 23:59

E-poster session: Exhaled biomarkers of asthma and the asthma burden

**Disease(s):** Asthma, COPD, Thoracic oncology

**Method(s):** General respiratory patient care, Pulmonary function testing, Public health, Cell and molecular biology, Epidemiology, Surgery

**Chairs:** Celeste Michala Porshjorg (Copenhagen, Denmark), Arnaud Bourdin (Montpellier Cedex 5, France)

### 2172 Onset of action of inhaled corticosteroids on bronchial and alveolar nitric oxide output
Tuomas Karvonen (Tampere, Finland), Anna Sepponen-Lavikko, Kati Holm, Rüdiger Schultz, Evva Moilanen, Lauri Lehtimäki

### 2173 Correlation between clinic and remote FEV1 and FeNO measurements: post hoc analysis of the INCONTRO study
Sofia Necander (Askim, Switzerland), Mahdi Hashemi, Ziad Taib, Robert Palmér, Katarina Korsback, Malin Aurell, Stephen Delaney, Katerina Porsbjerg, Per Gustafson, David Keeling, Tariq Sethi, Ioannis Psallidas

### 2174 The ability of the eNose on the discrimination of smoking status in asthma and COPD
Stefania Principe (Palermo (PA), Italy), Job Jnh Van Bragt, Cristina Longo, Rianne De Vries, Peter Sterk, Nicola Scichilone, Susanne Sjh Vjverberg, Anke-Hilse Maitland-Van Der Zee

### 2175 The challenge with cigarette smoke - the way to predict lung disease development in the future.
Immanuels Taivans (Riga, Latvia), Gunta Strazda, Normunds Jurka, Valentina Gordjušina

### 2176 FeNO as a predictor of Asthma control in a tertiary care centre in South India
Padmanabhan Arjun (Trivandrum (Kerala), India), Sanjeev Nair

### 2177 Proteins in exhaled air in assessment of asthma in children
Maria Juusela (Espoo, Finland), Marjut Lehtinen, Venla Aaltonen, Ulrich Bergmann, Seppo Sarna, Erik Qvist, Kristiina Malmström

### 2178 Asthma Management Practices among Specialists and General Practitioners in and around Pune city
SAJIN MATHEW, Shubhi Singhal

### 2179 Estimating Chronic Respiratory Disease (Asthma and COPD) burden in adults in Asian LMICs: a pilot study for 4CCORD [4 Country Chronic Respiratory Disease study]
Dhiraj Agarwal (Pune (Maharashtra), India), Deessa Ghorpade, Sundeeb Salvi, Nik Sherina Hanafi, Osman Yusuf, Moshin Saeed Khan, Deepa Das, Biswajit Paul, Rina Isaac, Mohammad Shahidul Islam, Samir Saha, Su May Liew, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong Kck Pang, Karuthan Chinna, Li Ping Wong, Richard Parker, Ee Ming Khoo, Sanjay Juvekar, Hiliary Pinnock

### 2180 Uncontrolled asthma has a higher disease burden compared to controlled asthma in adult onset but not in childhood onset asthma
Geertje M. de Boer (Rotterdam, Netherlands), Laura Houweling, Cathelijne Van Zelst, Gert Verhoeven, Liesbeth Van Rossum, Rudi W. Hendriks, Gerdien A Tramper, Gert-Jan Braunstahl

### 2181 The longitudinal evaluation of lung function and biomarkers (levante) study in medical students: Preliminary Results
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### 2182 Anti-DP effects on airway bacterial load in a phase 2a trial
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Preoperative FENO (Fractional Exhaled Nitric Oxide) assessment as a predictor of postoperative respiratory complications in case of cardiac surgery (CABG)
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Aditya Singh, Sanjeev Saxena, Shivkant Agarwal, Rahul Kathuria, Prashant Bendre, Amit Garg

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Aline Staelder-Siebeneichler (Switzerland), Desiree Schumann, Michael Tamm, Daiana Stolz

COMMON COLD INFLUENCES EXHALED VOLATILE ORGANIC COMPOUND PROFILE ANALYZED BY AN ELECTRONIC NOSE.
Silvano Dragonieri (Bari (BA), Italy), Vitaliano N Quarranta, Pierluigi Carratu, Teresa Ranieri, Giovanna Elisiana Carpagnano, Onofrio Resta

Relationship between psychological status and asthma control
Soumaya Bouchareb (Ksar Hellal, Tunisia), Imen Touil, Nadia Keskes, Chaima Ben Rhouma, Ella Nems, Raja Romdhane, Jalel Knani, Leila Boussoffara

Symptom assessment for preventing physician’s underestimation of asthma control.
Ayumi Chikumoto (Ube-city, Japan), Kazuto Matsunaga, Kazuki Hamada, Keiji Oishi, Masafumi Yano, Yoshikazu Yamaji, Tsunahiko Hirano

Is the determination of eosinophils in the induced sputum useful to assess the control of Asthmatic patient?
Jesus Segundo Gordillo Fuentes (Spain), Jose Antonio Delgado Torralbo, Ana Gómez-Bastero Fernández, Elena Viciana Martín, Rafael Perera Louvier, Agustín Valido Morales

Oral corticosteroids in the treatment of exacerbation of severe asthma
Anahit Gevorgyan (Yerevan, Armenia)

Are GINA guidelines used correctly to assess asthma severity? – a retrospective study
Mohamed abuzakouk (Abudhabi, United Arab Emirates), Sonya Jacob, Omar Ghorab

Effect of symptoms expression difficulty and excessive physical perception on asthma control test results
Saban Melih Simsek (Manisa, Turkey), Deniz Kizilirmak, Meltem Hazel Şimşek, Yavuz Havluçu

Pre-congress content Session 154 00:00 - 23:59

E-poster session: New tools for diagnosis of obstructive diseases

Disease(s): Airway diseases

Method(s): General respiratory patient care  Pulmonary function testing  Epidemiology  Cell and molecular biology  Public health

Physiology: Imaging

Chairs: Giovanna Elisiana Carpagnano (Bari, Italy), Peter J. Sterk (Amsterdam, Netherlands)

Late Breaking Abstract - Genetic diagnosis of alpha-1 antitrypsin deficiency using saliva samples
Amaa Larruskain (Derio, Spain), Amaya Buxens, Mónica López, Marta Artieda

Late Breaking Abstract - The roles of impulse oscillometry in detection of asthma control level.
Warawut Chaiwong (Chiang Mai, Thailand), Sirianong Namwongprom, Chalerm Liwsrisakun, Chaicharn Pothirat

Cross-sectional biomarker comparisons with a longitudinal perspective in asthma monitoring: the eNose premise
Mahmoud Ismael Abdel-Aziz Ibrahim (Amsterdam, Netherlands), Rianne De Vries, Ariana Lammers, Binbin Xu, Anne Neerincx, Susanne Vijverberg, Yennece Dagelet, Aletta Kraneveld, Urs Frey, René Lutter, Peter Sterk, Anke-Hilse Maitland-Van Der Zee, Anirban Sinha

Characteristics of patients with physician-assigned COPD without airflow obstruction in NOVELTY
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Rod Hughes, Ricardo Del Olmo, Jørgen Vestbo, Barry Make, Eleni Rapsomaniki, Hana Müllervá, David Price

Determinants of arterial stiffness in Alpha-1 Antitrypsin Deficiency
Abubacarr Gassama (Birmingham (West Midlands), United Kingdom), Liz Sapey, Diane Griffiths, Rob Stockley, Prem Kumar, Alice Turner

Comparison of the lung ventilation assessed by a full-scale airway network flow model and xenon-enhanced dual-energy CT of patients with COPD
Minsuok Kim, Ozkan Doganny, Hae Jeon Hwang, Joon Beom Seo, Fergus Gleeson

Comparison of low-dose CT image registration-based “Parametric Response Maps” with global lung function and diffusion capacity in COPD patients
Sam Bayat (Grenoble, France), Ludovic Broche, Mohammed Machichi, Sébastien Bailly, Bruno Degano, Renaud Tamisier, Gilbert Ferretti, Jean-Louis Pépin
### Session 155: Monoclonal antibodies in asthma

**Pre-congress content**

**E-poster session:** Monoclonal antibodies in asthma

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** General respiratory patient care, Pulmonary function testing, Cell and molecular biology, Epidemiology, Physiology

**Chairs:** Patrick Berger (Bordeaux, France), Amelia Licari (Pavia (PV), Italy)

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## Pre-congress content

### Session 156 00:00 - 23:59

**E-poster session: Clinical parameters in severe asthma**

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

**Method(s):** General respiratory patient care, Epidemiology, Pulmonary function testing, Endoscopy and interventional pulmonology, Physiology

**Chairs:** David J Jackson (London, United Kingdom), Renaud Louis (Liège, Belgium)

**Patient-reported versus objective adherence and exacerbation rates in severe asthma.**

- **Jenny King (Manchester (Greater Manchester), United Kingdom), Stephen Fowler, Leanne Holmes, David Allen, Lynn Elsey**
2232 Practicality and clinical utility of cardiopulmonary exercise testing to investigate complex breathlessness in severe asthma
Amanda Vigus (Birmingham, United Kingdom), Maximillian Thomas, Adel Mansur

2233 Targeted literature review: epidemiology of severe and uncontrolled asthma and associated biomarkers in France, Germany, Italy, Spain and the UK
Anna Quinton (Cambridge, United Kingdom), Luke Callan, Joshua Dube, Sumeet Singh, Arnaud Bourdin

2234 A “gender phenotype” does really exist in severe asthma.
Sonia Rizzello (, Italy), Chiara Allegrini, Lorenzo Ciambellotti, Clara De Filippis, Federico Lavorini, Gianna Camiciottoli

2235 Small airway evolution of a Brazilian severe asthmatic cohort (BRASASP): 10 years follow up
Nilton Goncalves Dos Santos Junior (Sao Paulo (SP), Brazil), Renato Miranda Lima, Rodrigo Abensur Athanazio, Regina Maria De Carvalho Pinto, Joao Marcos Salge, Klaus Rabe, Alberto Cukier, Rafael Stelmach

2236 Real prevalence of severe asthma in developing countries - Is the diagnosis correct?
Manu Chopra (Delhi, India), Vasu Vardhan, Priyanka Singh

2237 Association between cough frequency and T2 inflammation in severe asthma
Joshua Holmes (Belfast, Belfast, United Kingdom), Surinder Birring, Hannah Fletcher, L.G Heaney

2238 The Cretan Registry of the use of Biologics in Severe Asthma (CREBS) of the University Hospital of Heraklion, Greece
Katerina Antoniou (Heraklion, Greece), Maria Bolaki, Konstantinos Karagiannis, Despo Ierodiaconou, Vagia Stamatopoulou, Athina Trachalaki, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Thanasis Solakis, Milos Markatos, Stelios Vittorakis, Aggeliki Kostaki, Maria Varoucha, Evangelia Stamatakis, George Pitsidianakis, Irini Lambiri, Ioanna Mitroussa, Nikolaos Tzanakis

2239 Cretan Severe Asthma Registry
Katerina Antoniou (Heraklion, Greece), Konstantinos Karagiannis, Maria Bolaki, Despo Ierodiaconou, Athina Trachalaki, Vagia Stamatopoulou, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Aggeliki Kostaki, Maria Varoucha, Thanasis Solakis, Milos Markatos, Stelios Vittorakis, Evangelia Stamatakis, George Pitsidianakis, Irini Lambiri, Ioanna Mitroussa, Nikolaos Tzanakis

2240 The relationship between lung function and BAL return in severe asthma
David Hill (Melbourne (VIC), Australia), Laurie Lau, Clare Barber, Colin Newell, Adnan Azim, Ramesh J Kurukularatnach, Peter H Howarth, Tim Wallis, Anna Freeman

2241 Is the minimally clinically important difference (MCID) fit for purpose? A planned study using the SAQ
Joseph Lanario (Plymouth (Devon), United Kingdom), Rupert Jones, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Matthew Masoli

2242 Targeted literature review: burden of disease associated with severe and uncontrolled asthma in France, Germany, Italy, Spain and the UK
Arnaud Bourdin (Montpellier Cedex 5, France), Anna Quinton, Luke Callan, Joshua Dube, Maryann Wu, Sumeet Singh

2243 Relation between pulmonary function tests (PFTs) and severe asthma difficult to control
Byron Enrique Urizar Catalan (Huelva, Spain), Maria Moron Ortiz, Carolina Puchaez Manchon, Javier Romero Lopez, Antonio Pereira-Vega, Jose Luis Sanchez Ramos

2244 Diagnosis of Endoscopic Patterns in Severe Asthma
Lidia Mendez Mangas (Hospitalite de Llobregat, Spain), Eva Fontanilles Arbones, Marta Diez Ferrer, Cristina Martin Cabeza, Noelia Cubero De Frutos, Salud Santos Perez, Jordi Dorca Sargatal, Rosa Lopez Lisbona, Mariana Munoz Esquerre

2245 Personalizing asthma care base on Asthma Control Test (ACT) correlation with treatment of asthma comorbidities in a Malaysian cohort
Nurul Yaqeen (Batu Caves (Selangor), Malaysia), Ahmad Izuanuddin Ismail

2246 The first 30 months of the Portuguese Severe Asthma Registry

2247 Effect of obstructive sleep apnea on asthma control
Dilber Özden Mat (Ankara, Turkey), Selma Fırat, Kurtuluş Aksu, Funda Aksu, Sezgi Şahin Duyar

2248 Predictors of sputum eosinophilia in severe asthma
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Quality of life in severe asthma measured by SAQ and EQ5D questionnaires as a function of clinically relevant cut-off points

Joseph Lanario (Plymouth (Devon), United Kingdom), Rupert Jones, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Matthew Masoli

Pre-congress content  Session 157  00:00 - 23:59

E-poster session: Monoclonal antibodies; randomised controlled trials and real-world studies in asthma

Disease(s): Airway diseases  Respiratory critical care
Method(s): General respiratory patient care  Epidemiology  Pulmonary function testing  Physiology
Chairs: Patrick Berger (Bordeaux, France), Corrado Pelaia (Catanzaro (CZ), Italy)

Late Breaking Abstract - Phenotyping Mepolizumab EXacerbations in severe eosinophilic asthma (M E X)
Pamela Jane McDowell (Bangor (Co. Down), United Kingdom), Sarah Diver, Jieqiong Freda Yang, Catherine Borg, John Busby, Vanessa Brown, Rahul Shrimanker, Ciara Cox, Christopher Brightling, Rekha Chaudhuri, Ian Pavord, Liam Heaney

Late Breaking Abstract - Efficacy of oral prednisolone in patients with stable severe eosinophilic asthma treated with Mepolizumab
Jieqiong Yang (Glagow, United Kingdom), John Busby, Liam G Heaney, Chris E Brightling, Ian D Pavord, Katie Borg, Pamela Jane McDowell, Sarah Diver, Rahul Shrimanker, Steven Smith, Malcolm Shepherd, Waiting Nicola Lee, Rekha Chaudhuri

Depletion rate of blood eosinophils with benralizumab, bencilazumab and oral prednisolone in patients with severe asthma
Angela Moran (Christchurch, New Zealand), Sanjay Ramakrishnan, Catherine Borg, Clare Connolly, Simon Couillard, Christine Mwasuku, Ian Pavord, Timothy Hinks, Lauri Lehtimäki

Relationship between baseline fraction of exhaled nitric oxide (FeNO) and response to anti-IL-5/5R therapies in severe eosinophilic asthma (SEA)
Joanne Kavanagh (London, United Kingdom), Andrew Hearn, Cris Roxas, Linda Green, Marianna Fernandes, Louise Thomson, Victoria Payne, Grainne D’Ancona, Brian Kent, Jaideep Dhariwal, Alexandra Nanzer-Kelly, David Jackson

Sputum analysis reveals eosinophilic inflammation in difficult-to-control asthma patients with low blood eosinophils and FENO.
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Dual biological therapy with mepolizumab a novel solution to dupilumab-induced conjunctivitis
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Severe asthma outcomes over 18-months treatment with mepolizumab, and comorbidities in non-responders.
Lynn Elsey (Hale, United Kingdom), James Wingfield-Derby, Leanne J Holmes, Lorna Maguire, Kate Newman, Thomas Pantin, Stephen Fowler

Determining early response to anti-IL 5/IL 5R monoclonal antibodies in severe eosinophilic asthma
Joanne Kavanagh (London, United Kingdom), Cris Roxas, Linda Green, Mariana Fernandes, Louise Thomson, Victoria Payne, Andrew Hearn, Brian D Kent, Grainne D’Ancona, Jaideep Dhariwal, Alexandra M Nanzer, David J Jackson

Response to benralizumab in severe eosinophilic asthma after intermediate-to-poor response to mepolizumab: a retrospective study.
Masita Félicité Luzietoso (Montpellier, France), Mada Ghanem, Pierre Le Guen, Camille Taillé

Characterising individual response to mepolizumab treatment
David J Jackson (London, United Kingdom), Robert G Price, Steven W Yancey, Roland Buhl, Sally Wenzel

Mepolizumab improves lung function under real-world settings in REALITI-A study
Florence Schleich (Liège, Belgium), Rekha Chaudhuri, Giorgio Walter Canonica, Xavier Munoz Gall, Faustina Funke, Bonavuth Pek, Stephen Pollard, Aoiife Maxwell, Sandra Joksaita, Robert G Price, Ronan O'Reilly, Melissa K Van Dyke, Shijing Yang, Peter Howarth

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Joanne Kavanagh (London, United Kingdom), Cris Roxas, Linda Green, Mariana Fernandes, Louise Thomson, Victoria Payne, Andrew Hearn, Brian D Kent, Grainne D’Ancona, Jaideep Dhariwal, Alexandra M A Nanzer, David J Jackson

Serum Amphiregulin expression in severe asthma patients treated with anti-IL-5 therapy
Diego Bagnasco (GENOVA (GE), Italy), Anna Maria Riccio, Laura De Ferrari, Alessandro Massolo, Marco Caminati, Andrea Manfredi, Gianenrico Senna, Giovanni Passalacqua
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Predictors of loss of asthma control in the Phase 2a INCONTRO trial: A post-hoc analysis
Robert Palmér (Örebro, Sweden), Joachim Almquist, Mahdi Hashemi, Ziad Taib, Sofia Necander, Katarina Korsback, Malin Aurell, Sara Asimus, Stephen Delaney, Katerina Pardali, Per Gustafson, Tariq Sethi, David Keeling, Ioannis Psallidas

PB-680, an oral A1 adenosine receptor antagonist, inhibits adenosine monophosphate (AMP) airway hyperresponsiveness (AHR) in mild-to-moderate asthma: a Phase-IIa proof-of-concept trial
David Ramos-Barbon (Barcelona, Spain), Nadia S. Brienza, Teresa Bigorra Rodriguez, Ignasi Gich Salachid, Montserrat Puntes Rodriguez, Rosa M. Antonijoan Arbos, Nahomi Castro Palomino Laria, Julio Castro Palomino Laria

Oral corticosteroids for asthma usually prescribed by non-specialists
Akke-Nynke van der Meer (Leeuwarden, Netherlands), Kim De Jong, Michiel Ferns, Marieke Krol, Christine Widrich, Anneke Ten Brinke

Reduction in asthma exacerbations with indacaterol/glycopyrronium/mometasone high-dose versus medium-dose: a post hoc analysis from the IRIDIUM study
Kenneth R. Chapman (Toronto (ON), Canada), Konstantinos Kostikas, Huib A.M. Kerstjens, Peter D’Andrea, Motoi Hosoe, Devendra Jain, Abhijit Pethe, Ana-Maria Tanase

Managing T2-High Inflammation in Severe Asthma - Are Biomarkers Better Than Clinician Judgement?
James Michael Ramsahai (Toronto (ON), Canada), Jodie Simpson, Alistair Cook, Peter G Gibson, Vanessa M Mcdonald, Christopher Grainge, Peter Wark

Effect of indacaterol/mometasone on lung function in adolescents versus overall patient population: PALLADIUM study
Matthias Krüll (Berlin, Germany), Richard Van Zyl-Smit, Christian Gessner, Yasuhiro Gon, Oliver Noga, Alexia Richard, Amy De Los Reyes, Xu Shu, Abhijit Pethe, Ana-Maria Tanase, Peter D’Andrea

Pre-congress content Session 159 00:00 - 23:59
E-poster session: Novel immunopathological mechanisms of lung disease: knowledge from translational studies
Disease(s): Airway diseases Interstitial lung diseases
Method(s): Cell and molecular biology
Chairs: Simon D. Pouwels (Groningen, Netherlands), Aleksandra Szczepankiewicz (Pozna , Poland), Jamil Jubrail (Edinburgh, United Kingdom)

Uregulation of Suppressors of Cytokine Signalling (SOCS)3 in COPD alveolar macrophages.
Erica Bazzan (Padova (PD), Italy), Mariaenrica Tinè, Grazia Turato, Umberto Semenzato, Micaela Romagnoli, Manuel Cosio, Marina Saetta

The CDK 4/6 inhibitor, palbociclib intensifies pulmonary inflammation in bleomycin-induced lung fibrosis
Anna Birnhuber (Graz, Austria), Bakytbek Egennzarov, Valentina Biasin, Ehsan Bonyadi Rad, Horst Olschewski, Grazyna Kwapiszewska, Leigh Marsh

Alveolar presence of red blood cells correlates with alveolar macrophage iron levels in COPD
James Baker (MANCHESTER, United Kingdom), Molly Hammond, Josiah Dungwa, Andrew Higham, Simon Lea, Dave Singh

The content of IgE and circulating immune complexes (CIC) in pregnant women with exacerbation of chronic simple bronchitis due to cytomegalovirus infection
Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Igor N. Gorikov, Irina A. Andrievskaya, Leonid G. Nakhamchen, Natalia A. Ishutina

The relationship between Notch expression and T cell differentiation in COPD
Ching-Hsung Lin (Changhua City, Taiwan), Yi-Rong Li, Hsiu-Hui Chang, Sheng-Hao Lin

Physiological role of olfactory receptors in alveolar macrophages
Daniel Weidinger (Bochum, Germany), Desiree Alisch, Kaschin Jamal Jameel, Matthias Ruhe, Faisal Yusuf, Simon Rohde, Jacqueline Schalk, Peter Kaufmann, Juliane Kronsbein, Marcus Peters, Nikolaos Giannakis, Hanns Hatt, Jürgen Knobloch

In vitro responses of peripheral blood mononuclear cells in severe asthma patient treated with Mepolizumab
Fahad Alhadian (Leicester, United Kingdom), Jameel Hakeem, Adam Wright, Salman Siddiqui, Yassine Amrani

Levels of proteinase 3 and neutrophil elastase in plasma, BAL and biopsies in COPD
Bahareh Jouleh (Rådal, Norway), Ingvild Haaland, Fahimeh Khorsand, Randi Sandvik, Tharmini Kalanathan, Rune Nielsen, Tæraneh Jouleh, Harald Wiker, Per Bakke, Nathalie Reuter, Tomas Eagan
Protease activated receptor 2 (PAR2) antagonism reduces pro-inflammatory cytokine production in bronchial epithelial cells
Mariarca Bailo (Paisley, United Kingdom), L. Dunning, J. Brzeszczynska, K. Mcintosh, R. Plevin, S. L. Martin, G P. Sergeant, C. S. Goodyear, G. S. Litherland, J. C. Lockhart, A. Crilly

FK506-binding protein 11, a novel plasma cell specific antibody folding catalyst, is increased in idiopathic pulmonary fibrosis
Stefan Preisendörfer (München, Germany), Stefan Preisendörfer, Yoshihiro Ishikawa, Larissa Knüppel, Isis Fernandez, Leonhard Binzenhöfer, Brenda Juan-Guardela, Elisabeth Hennen, Clemens Ruppert, Andreas Guenther, Nikolaus Kneidinger, Marion Frankenberger, Rudolph Hatz, Jürgen Behr, Aloys Schepers, Anne Hilgendorff, Naftali Kaminski, Hans-Peter Bächinger, Oliver Eickelberg, Claudia Staab-Weiñitz

Immunological profiling of chronic obstructive airways disease and idiopathic pulmonary fibrosis
Jacobo Sellares Torres (Barcelona, Spain), Nuria Mendoza, Sandra Casas-Recasens, Fernanda Hernández, Nuria Albacar, Noel Guillaume, Alvar Agusti, Rosa Faner

Erythromycin Reverses Nets-induced Corticosteroid Insensitivity By Inhibition Of The PI3kd/akt Pathway
Zhiyi He (Nan Ning, China)

THE PROGRESSION OF IMMUNE DISORDERS IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE IS ASSOCIATED WITH CHANGES IN LEUKOCYTE MEMBRANE FATTY ACID COMPOSITION
Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Novgorodtseva, Marina Antonyuk, Tatyana Gvozdenko

Multiplex immunohistochemistry to investigate inflammatory cell spatial organisation and interactions in severe asthma
Latifa Chachi (Leicester (Leicestershire), United Kingdom), Joao Sousa, Chris Brightling, Yassine Amrani

Determination of levels of markers of systemic inflammation in patients with chronic bronchitis in combination with concomitant gastroesophageal reflux disease
Uliana Shevchuk-Budz (Ivano-Frankivsk, Ukraine), Mykola Ostrovs'ky, Oleksandr Varunkiv, Iryna Savelikhina, Iryna Makoyda, Kseniia Ostrovskaya

Cross-talk between coagulation and inflammation in COPD. The role of Factor XIII.
Erica Bazzan (Padova (PD), Italy), Claudia Radu, Mariaenrica Tiné, Umberto Semenzato, Simonetta Baraldo, Grazziella Turato, Paolo Simioni, Manuel Cosio, Marina Saetta

Evaluation of mRNA expression profiling of NF-?B mediated signaling in COPD patients.
Ravi Shanker Yadav (Lucknow, India), Surya Kant, Prashant Mani Tripathi, Anuj Kumar Pandey

Mechanisms of extracellular Hsp70 induced inflammatory effects in 16HBE cells
Andrea Hulina Tomašković (Padova (PD), Italy), Anita Somborac-Bačura, Iva Hlapčić, Marija Grdić Rajković, Simoneta Baraldo, Graziella Turato, Paolo Simioni, Manuel Cosio, Marina Saetta

Estimation of DNA repair synthesis in peripheral blood lymphocytes from asthmatic patients treated with oral corticosteroids
Andrey Lintsov (Ivano-Frankivsk, Ukraine), Alisher Soliev, Pavel Slizhov, Sergei Shevelev, Irina Spivak, Viktor Mikhailov

The importance of innate and adaptive immunity in the formation of various variants of the course of seasonal allergic rhinitis
L Sizyakina (Rostov-on-Don, Russian Federation), I Andreeva, N Semenova

Pre-congress content

Session 160 00:00 - 23:59

E-poster session: Aspergillosis and chronic lung infections

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

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

Chairs : Eva Van Braeckel (Ghent, Belgium), Sanjay Haresh Chotirmall (Singapore, Singapore)

Clinical application and radiological relavance for Aspergillus fumigatus- and flavus-specific IgG in chronic Pulmonary Aspergillus infection.
Shiang-Fen Huang (Taipei, Taiwan), Fu-Der Wang, Shi-Yi Li, Yu-Jung Chan, Yu-Chi Huang, Ying-Ying Yang

Cavitary lung lesions - microbiological identification of mycobacteriosis
Ruslan Asanov (Ulyanovsk, Russian Federation), Natalya Karpina, Ekaterina Shishkina, Elena Larionova, Atatshan Ergeshov
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<td>Sarra Ammari (Manouba, Tunisia), Sarra Zairi, Héla Kammoun, Amira Dridi, Mehdi Abdennadher, Imene Bouassida, Taher Mestiri, Lamine Megdiche, Hazem Zribi, Adel Maraghli</td>
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<td>Allergic bronchopulmonary aspergillosis as aetiology of bronchiectasis: data from the German bronchiectasis registry PROGNOSIS</td>
<td>Isabell Pink (Hamburg, Germany), Jessica Rademacher, Pontus Mertsch, Andres De Roux, Annegret Zurawski, Grit Barten-Neiner, Tobias Welte, Roland Diel, Felix Ringshausen</td>
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<td>Impact of Candida isolation in lower respiratory tract samples on the outcomes of acute exacerbation of chronic obstructive pulmonary disease: a retrospective case-control study</td>
<td>Jing Zhang (Shanghai (Xuhui District), China), Yi-Hui Zuo, Wei-Qing Wang, Jie-Ming Qu</td>
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<td>Use of Isavuconazole MIC to guide dosing in the management of Aspergillosis in patients with pulmonary disease</td>
<td>LISA NWANKWO (BANSTEAD, United Kingdom), Darius Armstrong-James, Anand Shah</td>
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<td>Performance of Siemens immulite immunoassay for detection of Aspergillus fumigatus and Aspergillus flavus specific IgG for chronic pulmonary aspergillosis diagnosis in Pakistan</td>
<td>Kauser Jabeen (Karachi, Pakistan), Joveria Farooqi, Nousheen Iqabal, Khalid Wahab, Muhammad Irfan</td>
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<td>An open label randomized controlled trial comparing nebulized amphotericin B with oral itraconazole in patients with pulmonary aspergillosis</td>
<td>Animesh Ray (Kolkata (West Bengal), India), Jagadeesh Manikanta, Surabhi Vyas, Sunil Kumar Kabra</td>
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<td>Clinical characteristics of patients with pulmonary aspergillosis in medical care in southern Brazil</td>
<td>Eduardo Garcia (Porto Alegre (RS), Brazil), Felipe Westphal, Marcelo Bellon, Tales Franzini, João Dallasen</td>
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<td>Keitaro Nakamoto (Tokyo, Japan), Yuka Sasaki, Tatsuya Shirai, Keiji Fujiwara, Koji Furuuchi, Takeshi Osawa, Masafumi Shimoda, Kozo Morimoto, Yoshiaki Tanaka, Masao Okumura, Takashi Yoshiyama, Hideo Ogata, Atsuyuki Kurashima, Kozo Yoshimori, Ken Ohta</td>
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<td>Comparative evaluation of biological specimens obtained from patients diagnosed with non-tuberculosis mycobacteriosis</td>
<td>Natalya Karpina (Moscow, Russian Federation), Irina Shabalina, Elena Larionova, Ekaterina Shishkina, Ruslan Asanov, Atadzhan Ergeshov</td>
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<td>Launch of a novel intrapleural fibrinolytic service for empyema at a district general hospital in London</td>
<td>Ewan Mackay (London, United Kingdom), Sivanantham Sasikumar</td>
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<td>Comparison of susceptibility testing results of MAC isolated from HIV-positive and HIV-negative patients</td>
<td>Anna Panova (Moscow, Russian Federation), Alexandra Gracheva, Anatoliy Vinokurov, Galina Pay, Grigory Kaminskiy, Eduard Karamov, Irina Vasilyeva</td>
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<td>In vitro susceptibility testing of bedaquiline against mycobacteria avium-intracellulare complex</td>
<td>Marina Marakova (Nizhnekamsk (Republic Tatarstan), Russian Federation), Yulia Mikhailova, Dmitriy Kudlay, Natalia Litvinova, Lidia Guntupova, Vitaliy Litvinov</td>
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<td>Rim khemakhem (Sfax, Tunisia), Nessrine Kallel, Khouloud Abdelmouleh, Nedia Moussa, Ilhem Yangui, Samy Kammoun</td>
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Pre-congress content

Session 161 00:00 - 23:59

E-poster session: Translational science in respiratory infections

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology  Physiology  General respiratory patient care  Pulmonary function testing

**Chairs:** Martin Witzenrath (Berlin, Germany), Kylie Belchamber (Birmingham, United Kingdom)
2321  Effects of PC 945, a novel antifungal agent optimised for lung delivery, on Candida albicans lung infection in mice
Yuki Nishimoto (Chiba, Japan), Genki Kimura, Takahiro Nakaoki, Pete Strong, Kazuhiro Ito, Yasuo Kizawa

2322  Establishment of Nontypeable Haemophilus influenzae airway infection murine model
Genki Kimura (Funabashi, Japan), Yuki Nishimoto, Takahiro Nakaoki, Kazuhiro Ito, Yasuo Kizawa

2323  Dual RNASeq unveils NTHi-macrophage transcriptomic changes during intracellular persistence
Jodie Ackland (Southampton (Hampshire), United Kingdom), Ashley Heinson, David Cleary, Myron Christodoulides, Tom Wilkinson, Karl Staples

2324  Overexpression of macrophage inducible C-type lectin Mincle aggravates proinflammatory responses to Streptococcus pneumoniae with fatal outcome in mice
Femke D. Hollwedel (Hannover, Germany), Regina Maus, Jennifer Stolper, Ayesha Khan, Bridget L. Stocker, Andreas Pich, Tobias Welte, Sho Yamasaki, Ulrich A. Maus

2325  TOLL-like receptors polymorphism in pneumonia associated with influenza A (H1N1)/09
Angelina Sartakova (Chita, Russian Federation), Sergei Lukyanov, Andrew Malyarchikov, Jana Shchukina, Alexandra Levanchuk, Arthur Emelyanov, Konstantin Shapovalov

2326  Biomorphological and related technical aspects affecting phage activity for inhaled application
Sandra-Maria Wienshold (Berlin, Germany), Markus C. Brack, Wibke Groenewald, Geraldine Noulilles, Imke Korf, Manfred Rohde, Claudius Seitz, Antonia Dannheim, Sarah Wienecke, Holger Ziehr, Christine Rohde, Martin Witzneth

2327  Role of reactive persulfide species in influenza virus-induced lung inflammation in mice
Katsuya Takita (Sendai - shi, Japan), Hisatoshi Sugiyama, Tomohiro Ichikawa, Numakura Tadahisa, Hirano Taizou, Mitsuhiro Yamada, Takaaki Akaike, Ichinose Masakazu

2328  Condition of cellular immunity in patients with prolonged course of community acquired pneumonia
Roman Razumnyi (Lugansk, Ukraine), Kateryna Gashynova

2329  Systematic evaluation of clarithromycin (CLA) resistance associated mutations in Mycobacterium abscessus complex based on whole-genome sequencing analysis and drug susceptibility testing.
Mitsunori Yoshida, Hanako Fukano, Kentaro Yamamoto, Masato Suzuki, Kozo Morimoto, Naoki Hasegawa, Satoshi Mitarai, Manabu Ato, Yoshihiko Hoshino

2330  Phosphorothioate oligodeoxynucleotides induce antimicrobial epithelial mitochondrial reactive oxygen species that protect against pneumonia
Scott Evans (Houston, United States of America), Yongxing Wang, Vikram Kulkarni, Jezzreel Pantaleon Garcia, Michael Longmire, Shradhul Wali

2331  Role of a-1 antitrypsin in lung protective immunity against Streptococcus pneumoniae in mice
Lena Ostermann (Hannover, Germany), Regina Maus, Jennifer Stolper, Lisanne Schütte, Konstantina Katsarou, Christian Mueller, Sabina Janciauskiene, Tobias Welte, Ulrich A. Maus

2332  Klebsiella pneumoniae triggers rapid release IL (IL)-26 in human neutrophils
Karhans Che (Stockholm, Sweden), Anders Linden

2333  High Intensity Interval Training control inflammation in mice exposed to Streptococcus pneumoniae.
CLARICE ROSA OLIVO (Sao Paulo, Brazil), Thamires B.P Castro, Roseane M. Laia, Luana D. Mendonça, Pietro Da Rocha Trindade, Jessica C. Souza, Beatriz M. Saraiva-Romanhlo, Maria Leonor S. Oliveira, Eliane N. Miyagi, Carla M. Prado, Iolanda F.C.L Tiberio

2334  The effects of inhaled corticosteroids and a beta-2 agonist on C. pneumoniae-infected airway epithelial cells
Dora Paroczi (Deszk, Hungary), David Kokai, Katalin Burian

2335  Antimicrobial effect of hypertonic saline on sputum and biofilm in endotracheal tube
Hui-Ling Lin (Taoyuan, Taiwan), Ssu-Hui Wang, Chi-Shuo Chen

2336  Protective efficacy of virus like particles (VLPs) containing the influenza HA and/or NA in a murine model of postinfluenza bacterial pneumonia
Irina LENEVA (Moscow, Russian Federation), Irina Falynskova, Andrey Egorov, Alexander Poddubikov, Reingard Grabherr, Miriam Klausberger

2337  Monitoring opportunistic microflora in patients with HIV infection and highlighting the significance of Streptococcus gr. viridans in the development of lower respiratory tract infections
Anna Mordyk (Omsk, Russian Federation), Larisa Puzyreva
### E-poster session: Biomarkers and characterisation of immune response in respiratory infection

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<th>Respiratory critical care, Airway diseases</th>
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<td>Method(s)</td>
<td>General respiratory patient care, Physiology, Cell and molecular biology, Epidemiology, Endoscopy and interventional pulmonology, Public health</td>
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<td>Chairs</td>
<td>Manali Mukherjee (Hamilton (ON), Canada), Kathleen Jahn (Basel, Switzerland)</td>
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#### 2340 Azurocidin-1: a marker of COPD severity and microbial dysbiosis
Jennifer Pollock (Dundee, United Kingdom), Alison Dicker, Mike Lonergan, Holly R Keir, Alexandra H Smith, Megan Crichton, Jeffrey T-J Huang, Bruce E Miller, Ruth Tal-Singer, James D Chalmers

#### 2341 Neutrophil extracellular traps levels are associated to severity and complications in community-acquired pneumonia
Paula Gonzalez Jimenez (Valencia, Spain), Raúl Méndez, Laura Feced, María P. Fernández-Pérez, Rocío González-Conejero, Constantino Martínez, Ana Latorre, Antonio Moscardó, Rosario Menéndez

#### 2342 Protein profile of COPD patients with Pseudomonas in their airway secretions
Joaquim Gea Guiral (Barcelona, Spain), Sergi Pascual-Guardia, Rut Mas, Rosa Faner, Adi Castro-Acosta, German Peces-Barba, Borja Cosio, Alvar Agustí, Eduard Monsó

#### 2343 Vitamin D as a marker of worsening of the course of pneumonia.
Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Olga Prikhodko

#### 2344 Composition ration and drug-sensitivity distribution of phlegmy patogenic bacteria from AECOPD inpatients
Tiangang Ma, Yanbing Hu, Qinghua Zhang

#### 2345 Metabolite markers identify pneumonia better in serum than sputum or broncho-alveolar lavage fluid
Qiang Xiao, Xiaobin Zheng, Xiang Liu, Liang Li, Fu Rong

#### 2346 Neutrophil elastase is correlated with disease severity in a cohort from Southern Europe
Andrea Grameniga (Milano (MI), Italy), Stefano Aliberti, Tommaso Pilocane, Giovanni Sotgiu, Margherita Ori, Carlotta Di Francescuo, Laura Saderi, Alice Gelmini, Leonardo Terranova, Martina Oriano, Angela Bellofiore, Michele Gaffuri, Barbara Vigone, James D Chalmers, Sibilia Orioli, Paola Marchisio, Francesco Blasi

#### 2347 Evaluating salivary IgA levels as a biomarker for susceptibility to upper respiratory tract infection in elite athletes
Scarlett Turner (London, United Kingdom), James Hull, Anna Jackson, Craig Ranson, Peter Kelleher, Mike Loosemore, Anand Shah

#### 2348 The adaptation of a point of care test for the quantitative determination of active neutrophil elastase in sputum
Darragh McCafferty (Belfast (Belfast), United Kingdom), William Carson-Mcneill, Timothy Ferguson, Kelly Moffitt

#### 2349 Validation of an activity-based immunoassay for measurement of active cathepsin g in sputum
Darragh McCafferty (Belfast (Belfast), United Kingdom), Kelly Moffitt, Timothy Ferguson, Brian Walker

#### 2350 Diagnostic performance of multiplex bacterial PCR in BAL for bacterial pneumonia varies across molecular assays
Andrei Darie (Basel, Switzerland), Desiree Schumann, Adrian Egli, Nina Khanna, Michael Tamm, Daiana Stolz

#### 2351 Evaluation of Immature Platelet Fraction (IPF) in respiratory tract infections.
Vasiliki Georgakopoulou (Athens, Greece), Konstantinos Mantzouranis, Dimitrios Mermigkis, Despina Melemeni, Georgios Petsinis, Evgenia Karakou, Agathi Lekkakou, Nikolaos Trakas, Rea Chatzikyriakou, Xanthi Tsiafaki

#### 2352 Vaccine-induced immunity in elite athletes undergoing respiratory assessment
Scarlett Turner (London, United Kingdom), James Hull, Anna Jackson, Craig Ranson, Peter Kelleher, Mike Loosemore, Anand Shah

#### 2353 Characterization of the Immune Response in Clinical Sepsis To Identify Potential Therapeutic Targets
Shahd Horie (Galway, Ireland), Jack Brady, Bairbre McNicholas, Daniel O'Toole, Matthew Griffin, John Laffey

#### 2354 Bronchoalveolar lavage amylase levels can be a biomarker of aspiration pneumonia.
Tomoko Suzuki (Aiduwakamatsu, Japan), Miwako Saitou, Yuka Utano, Kennichi Utano, Katsunao Niitsuma

#### 2355 Significant Discrimination of unknown bacterial Infections by Analysis of VOCs in exhaled Air or Headspace from Infected Regions
Gunther Becher (Bernau, Germany), Roman Purkhart, Romy Gerber, Thomas Junghans, Rolf Graupner
Disease(s): Airway diseases
Method(s): Epidemiology, Cell and molecular biology, General respiratory patient care, Transplantation, Public health, Imaging, Pulmonary rehabilitation, Pulmonary function testing
Chairs: Beatriz Herrero Cortina (Zaragoza, Spain), Amelia Shoemark (Dundee (Angus), United Kingdom)

2356 Pulmonary nontuberculous mycobacterial disease in elderly patients
Yoshihiro Kobashi (Kurashiki (Okayama), Japan), Masaaki Abe, Daisuke Yoshioka, Shigeki Kato, Toru Oga

2357 Species diversity of non-tuberculous mycobacteria isolated from HIV-positive and HIV-negative patients
Anna Panova (Moscow, Russian Federation), Alexandra Gracheva, Anatoliy Vinokurov, Galina Pay, Grigory Kaminskiy, Eduard Karamov, Irina Vasilyeva

2358 Radiological features of NTM pulmonary disease in patients with bronchiectasis
James D. Chalmers (Dundee (Angus), United Kingdom), Simon Finch, Irena Laska, Sebastian Ferri, Luis Carreto, Margarida Redondo, Hani Abo-Leyah, Roald Van Der Laan

2359 Non-tuberculous mycobacteria isolated in microbiological samples, at the General Hospital of Granollers.
Yolanda Galea Colón (Barcelona, Spain), Mireia Baiges Badia, Anna Mola Ausiró, Carmina Martí, Enric Barbeta Sanchez

2360 Paradoxical response during antibiotic treatment in patients with Mycobacterium avium complex lung disease
Jin-Young Huh (Republic of Korea), Byoung Soo Kwon, Yea Eun Park, Tae Sun Shim, Kyung-Wook Jo

2361 Bronchiectasis in Italy: data from the national registry IRIDE
Stefano Aliberti (Milano (MI), Italy), Giovanni Sotgiu, Francesco Menzella, Marialma Berlendis, Federico Dente, Sebastian Ferri, Marina Aiello, Angelo Corsico, Valentina Conti, Salvatore Battaglia, Vittoria Comellini, Paola Faverio, Emanuela De Juli, Megan Crichton, Eva Polverino, James Chalmers, Francesco Blasi

2362 Mycobacterium abscessus activates cross-resistance following antibiotic exposure
Jodie Schildkraut (Nijmegen, Netherlands), Jordy Coolen, Jakko Van Ingen

2363 Non-tuberculous mycobacteriosis of the lungs - comorbid pathology.
Anna Sargsyan (Schelkovo, Russian Federation), Natalia Makaryants, Evgeniy Shmelev, Larisa Lepekha

2364 Asthma as a comorbidity and cause of bronchiectasis: data from the European Bronchiectasis Registry (EMBARC).
Eva Polverino (Barcelona, Spain), Letizia Traversi, Miguelangel Martinez-Garcia, Michal Shteinberg, Apostolos Bossios, Katerina Dimakou, Pierluigi Paggiaro, George Ghillas, Yochoad Adir, Sebastian Ferri, Antonio Spanevello, Federico Dente, Stefano Aliberti, James Chalmers

2365 Inhaled antibiotics improve symptoms of cough and sputum in patients with bronchiectasis: a post-hoc analysis of the AIR-BX studies
Megan Crichton (Dundee (Angus), United Kingdom), Mike Lonergan, Alan Barker, Oriol Sibila, Pieter Goeminne, Amelia Shoemark, James Chalmers

2366 Eradication of Pseudomonas aeruginosa within the baseline dataset of the German Bronchiectasis Registry PROGNOSIS
Pontus Mertsch (München, Germany), Isabell Pink, Jessica Rademacher, Andrés De Roux, Stefanie Konwert, Roland Diel, Grit Barton, Annegret Zurawski, Tobias Welte, Jürgen Behr, Felix Ringshausen

2367 Are COPD patients with Nocardia species identification different from those who have also co-morbid bronchiectasis?
Mariana Serino (Braga, Portugal), Catarina Sousa, Margarida Redondo, Natália Martins, Adelina Amorim

2368 Asthmatic Traits in a Group of non-cystic fibrosis Bronchiectasis
Federico Lorenzo Dente (Pisa (PI), Italy), Giulia Lenzini, Giulia Parri, Micheli Micol, Silvana Cianchetti, Giovanna De Cusatis, Laura Carrozzi

2369 The clinical impact of nebulised antibiotics in adults with bronchiectasis and chronic pseudomonas aeruginosa
Michaela Donaghy (Newtonabbey, United Kingdom), Charlotte Addy, Jenny McLornan, Oonagh Hewitt, Ruth Redfern, Damian Downey, Steven Caskey

2370 High frequency chest wall oscillation use in non-cystic fibrosis bronchiectasis: a feasibility study.
Giulia Cacopardo (Palermo (PA), Italy), Claudia Crimi, Raffaele Campisi, Santi Nolasco, Stefano Alia, Nunzio Crimi

2371 Use of Dectametoxinum in bronchiectasis
Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeria Dmytrychenko

2372 Impact of cough on insomnia and sleep quality in bronchiectasis
Sebastian Ferri (Milan (MI), Italy), Serena Tammaro, Mariangela Retucci, Angela Bellofiore, Silvia Soloperto, Carlotta Di Francesco, Alice Gelmini, Andrea Gramegna, Margherita Ori, Alberto Braghirol, Francesco Blasi, Stefano Aliberti
Isolation of Nontuberculous Mycobacteria in Seville, Spain.

Maria Barca Hernando (Sevilla, Spain), Juan Francisco Medina Gallardo, Verónica González-Galán, Ana Rodriguez-Rey, Rafael Luque Márquez, Javier Aznar Martín

**Pre-congress content**

**Session 164**

E-poster session: Respiratory viruses in the "pre COVID-19" era

**Disease(s):** Airway diseases, Respiratory critical care

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

**Chairs:** Alejandra Ramírez Venegas (México D.F, Mexico), Aran Singanayagam (London, United Kingdom)

- **Respiratory Viral Trends in Adults**
  - Stephanie Yu (Clayton, Australia), Ar Kar Aung, Chuan Foo

- **Respiratory Viral Trends in Paediatrics**
  - Chuan Tai Foo (Victoria, Australia), Ar Kar Aung, Christiaan Yu

- **Respiratory viruses in bronchoscopic samples from hematoooncology patients**
  - Abdelfattah Touman (Makkah, Saudi Arabia), Ahmad Sayeed, Eid Al Qurashi, Nabil Ghalib, Ahmad Al Dobyany, Omar Al Nashiwaaty

- **Predictors of influenza PCR positivity in acute exacerbations of chronic obstructive pulmonary disease**
  - Huiying Xu (Singapore, Singapore), Min Sen Yew, Joo Hor Tan, John Abisheganaden

- **Influenza point-of-care testing: what is the point?**
  - Matthew Maycock (Glasgow (Glasgow), United Kingdom), Emilie Goldstein, William Harvey, Emilie Bellhouse, Su Su Htwe, Rory Gunson, Brian Choo-Kang

- **Sporadic coronavirus and human metapneumovirus lower respiratory tract infection in adults: comparison of chest CT findings and correlation with clinical outcomes**
  - Lawrence A. Marinari (Bryn Mawr, United States of America), Madeline A. Danny, Wallace T, Miller, Jr.

- **Infective triggers for asthma exacerbations in Malta**
  - Stephanie Pulliccino (Msida, Malta), Jonathan Debattista, Caroline Goudier, Stephen Montefort

- **The study of the viral etiology in the infectious exacerbations of chronic bronchitis in Ukraine**
  - Galyna Gumieniuk (Kyiv, Ukraine), Mykola Gumieniuk, Oleksii Denysov, Olga Denysova, Svitlana Opimakh

- **Current Management of Acute Bronchiolitis in Switzerland**
  - Katharina Hartog (St. Gallen, Switzerland), Cristina Ardura-Garcia, Juerg Hammer, Claudia Kuehni, Juerg Barben

- **Severe RSV bronchiolitis in children**
  - Rosalie S.N. Linssen (Amsterdam, Netherlands), Reinout A. Bem, Berber Kapitein, Katrien Oude Rengerink, Marieke H. Otten, Bibiche Den Hollander, Louis Bont, Job B.M. Van Woensel

- **Features of acute respiratory viral infections in pregnant women**
  - Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Irina V. Zhukovets, Tatjana V. Talchenkova, Kristina V. Bereza, Anton S. Abuldinov

- **Rhabdomyolysis in severe viral pneumonias in 2019**
  - Sergey Lukyanov (Chita (Zabaykalsky Krai), Russian Federation), Andrey Malyarchikov, Vladimir Gorbunov, Tamara Gaidukova, Konstantine Shapovalov

- **Combination of nitazoxanide with oseltamivir compared with oseltamivir in hospitalized patients with influenza**
  - Parvaiz A. Koul (Srinagar (Jammu and Kashmir), India), Hyder Mir, Tajamul Shah

- **Is the average exhaled nitric oxide concentration (FeNO) effective in detecting respiratory rhinovirus (RV) infections?**
  - Anirban Sinha (Amsterdam, Netherlands), Rene Lutter, Peter Sterk, Barbara Dierdorp, Tamara Dekker, Urs Frey, Edgar Delgado Eckert

- **The efficacy of the decamethoxin against simple and complex viruses**
  - Galyna Gumieniuk (Kyiv, Ukraine), Galyna Gumieniuk, Iryna Dziublik, Svitlana Fadeeva, Svitlana Opimakh, Oleksii Denysov
The effectiveness of Influenza vaccination in general Greek population
Eleni Bellou (Glyfada, Greece), Georgia Hardavella, Elissavet Mpampaliari, Elli Keramida, Irma Bracka, Loukia Pappa, Theodore Daskalos, Christos Kiritsis, Ioannis Karampinis, Gerasimos Metaxas, Despoina Zorpidou, Eleni Moraitou, Magdalini Makaronia, Simona Karabela, Panagiota Demertzis

A multi-centric retrospective study of respiratory tract metapneumovirus infection in immunocompromised patients.
Antoine Al Hamoud (Boulogne Billancourt, France), Nicolas Etienne, Nathalie Pansu, Emilie Catherinot, Antoine Roux, Louis Jean Couderc, Olivier Lortholary

Knowledge, attitudes and practices regarding influenza and TB among health workers during seasonal influenza outbreak
Stamatoula Tsikrika (Athens, Greece), Agis Terzidis, Emanouil Pikoulis

Association of radiologic findings with mortality of patients infected with 2019 novel coronavirus in Wuhan, China
Mingli Yuan (Wuhan, China), Wen Yin, Zhaowu Tao, Weijun Tan, Yi Hu

Ilias Dimeas (Larissa, Greece), Dimitrios Papagiannis, Fotemi Malli, Ioanna Papathanasiou, Dimitrios Raptis, Evangelos C. Fradolos, Zoe Danil, Georgios Rachiotis, Konstantinos I. Gourgoulianis

Pre-congress content

E-poster session: Epidemiology and understanding of airways diseases in primary care

**Disease(s):** General respiratory patient care, Epidemiology, Public health, Physiology, Palliative care, Pulmonary function testing

**Method(s):** General respiratory patient care, Epidemiology, Public health, Physiology, Palliative care, Pulmonary function testing

**Chairs:** Rachel Jordan (Birmingham (West Midlands), United Kingdom), Andrew Cave (Edmonton (AB), Canada)

- **Challenges in conducting community surveys on chronic respiratory diseases in Low and Middle-Income Countries: the 4CCORD pilot**
  - Ee Ming Khoo (Malaysia), Nik Sherina Hanafi, Dhiraj Agarwal, Sanjay Juvekar, Osman Yusuf, Mohsin Saeed Khan, Sundeeb Salvi, Deesha Ghorpade, Mohammad Shahidul Islam, Rita Isaac, Su May Liew, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong Kek Pang, Karuthan Chinning, Li Ping Wong, Samir K Saha, Hilary Pincock

- **Validated the power of terminal status criteria in the prediction of 1-year mortality in patients with COPD**
  - Pin-Kuei Fu (Taichung, Taiwan), Yu-Chi Tung

- **Cause-specific mortality rates in patients with COPD in primary care: a prospective analysis of the Birmingham COPD Cohort Study**
  - Shamal Haroon (Birmingham (West Midlands), United Kingdom), Andrew Dickens, Peymane Adab, Alexandra Enocson, David Fitzmaurice, Rachel Jordan

- **Severe asthma risk persists in London children.**
  - Mark L. Levy (London, United Kingdom), Zia Ul-Haq, Tahereh Kamalati, Rachel Meadows, Kavitha Saravanakumar, Amanda Lucas

- **Factors Affecting the Preferences of Electronic Cigarette Users**
  - Mehmet Uysal (İstanbul, Turkey), Ayse Turan

- **The effect of myofascial release technique on respiratory parameters in hamstring shortness**
  - Betul Cinar (Bezmialem Vakıf Üniversitesi, Turkey), Semiramis Ozyilmaz

- **Abnormal pain processing in young adults with controlled asthma: an observational study**
  - Janet Rodriguez Torres (Granada, Spain), María Granados Santiago, Alejandro Heredia Ciaró, Esther Prados Román, Ascensión Rodríguez Rodríguez, Marie Carmen Valenza

- **Predictive value of spirometry in early detection of obstructive lung disease in adults: a cohort study**
  - Lene Maria Orts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Janus Laust Thomsen, Niels Henrik Bruun, Anders Løkke, Annelli Sandbak

- **Quality of pneumonia assessment tools for community acquired pneumonia in Korea; From the Health Insurance Review and Assessment (HIRA) database**
  - Hanter Hong (Seoul, Republic of Korea), Tai Joon An, Chin Kook Rhee, Jun-Pyo Myoung, Sung-Hwan Jung, Hyoung-Kyu Yoon
Pre-congress content

Session 166 00:00 - 23:59

**E-poster session: Pharmacological management of COPD**

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  General respiratory patient care  Surgery  Public health  Pulmonary rehabilitation  Pulmonary function testing

**Chairs:** Arschang Valipour (Wien, Austria), Danilo Cortozi Berton (Porto Alegre (RS), Brazil)

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**2404**  Phenotyping OSAS patients based on comorbidities in the Primary Health Care in Greece

Sotirios Zarogiannis (Larisa, Greece), Panagiota Ntenta, Georgios Vavougios, Konstantinos Gourgoulianis

**2405**  Blood eosinophil as a treatable trait in patients with bronchiectasis

Hyun Lee (Seoul, Republic of Korea), Dae Geun Lee, Seungbum Wi, Seong Yong Lim, Hye Yun Park

**2406**  Chronic respiratory diseases (CRDs) in low- and middle-income countries (LMICs): A scoping review of survey methodologies

nik sherina Hanafi (Kuala Lumpur, Malaysia), Dhiraj Agarwal, Soumya Chippagiri, Evelyn A. Brakema, Hilary Pinnock, Ee-Ming Khoo, Aziz Sheikh, Su-May Liew, Chi-Wan Ng, Rita Isaac, Karuthan Chimna, Li-Ping Wong, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong-Kek Pang, Sanjay Jovekar

**2407**  Adherence to pharmacotherapy of Colombian patients with COPD according to GOLD 2019

Vicente Andrés Benavides Córdoba (Cali, Colombia), Jhonatan Betancourt-Peña, David Escobar-Vidal, Jenifer Rodriguez-Castro, Diana Guerrero Jaramillo

**2408**  Factors affecting vaccination rates against influenza in adults with asthma

Tadeusz M. Zielonka (Warszawa, Poland), Jeremy Bigaj, Natalie Czaicki

**2409**  Advanced care planning and Do Not Attempt CPR discussions in patients prescribed home oxygen therapy

Charlotte Francis (Cambridge, United Kingdom), Richa Singh, Jane Simpson, Joe Curtin

**2410**  Skiers with or without asthma have increased airway diffusion rate of NO from the airways

Marieann Högman (Uppsala, Sweden), Lars Wedholm, Tomas Carlsson, Magnus Carlsson, Michail Tonkonogi

**2411**  Theoretically informed education to support asthma self-management in primary care: part of the IMP2ART programme

Viv Marsh (Bridgnorth, United Kingdom), Kirstie Mc Clatchey, Rhian Last, Elizabeth Steed, Ann Saxon, Stephanie Taylor, Hilary Pinnock

**2412**  Precision of diagnosing COPD everyday practice

Rasa Gauronskaitė (Vilnius, Lithuania), Greta Ragiašiūnė, Rūta Kibarskytė, Monika Giedraitytė, Agnė Dapšauskaitė, Vytautos Kasulevičius, Edvardas Danila

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**Late Breaking Abstract - TriOptimize VIII - Improvement of Lung Function with Extrafine Single Inhaler Triple Therapy - Analysis of Response Patterns by Prior Treatment from a Real-World Study.**

Carl-Peter Criece (Bovenden, Germany), Sanaz Bahari Javan, George Georges, Kai Melchior, Raimund Hövelmann, Christian Gefsner

**2414**  Effect of Peri-operative Bronchodilator Therapy on Postoperative Pulmonary Function among Lung Cancer Patients with COPD

Hye Yun Park (Seoul, Republic of Korea), Sun Hye Shin, Sumin Shin, Danbee Kang, Juhee Cho, Dae Geun Lee, Seong Yong Lim

**2415**  Influenza and pneumococcal vaccination in patients with COPD

Nicolas Roche (Paris, France), Bernard Aguilaniu, Pierre-Régis Burgel, Maeva Zysman, David Hess, El-Hassane Ouaalaya, Thi-Chien Tran, Chantal Raherison

**2416**  Alpha-1 antitrypsin deficiency in COPD patients: Time to count it in!

Dilek Karadoğan (Rize, Turkey), Songül Özyurt

**2417**  Characteristics of new users of single and multiple-inhaler triple therapy for COPD in primary care in England

Kieran Rothnie (London, United Kingdom), Sandra Joksaite, Afisi Ismaila, Leah Sansbury

**2418**  Perception and Usage Among Indian Physicians of Long Acting Dual Bronchodilators in COPD: PATTERN Study

Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Arjun Khanna, Rashmi Hegde, Meena Lopez, KArtik Deshmukh, Almesh Kadakol, Jaideep Gogtay
Effect of COPD medications on exacerbation rates in a real-life COPD patient cohort - data from the Czech Multicenter Research Database of COPD.

Kristian Brat (Brno, Czech Republic), Vladimir Koblizek, Michal Svoboda, Marek Plutinsky, Jaromir Zatloukal, Eva Volakova, Patrice Popelkova, Barbora Novotna, Tomas Dvorak, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vanik, Lucie Heribanova

Withdrawal of ICS in patients with COPD
Anne Orholm Nielsen (Roskilde, Denmark), Ole Hilberg, Jens Ulrik Stæhr Jensen, Anders Løkke

Patient characteristics that guide medication advice for primary care COPD patients in an electronic service: preliminary results
Anna Jetske Baron (Groningen, Netherlands), Bertine M.J. Flokstra-De Blok, Ellen Van Heijst, Jiska M. Meijer, Esther E.I. Metting, Roland A. Riemersma, Huib A.M. Kerstjens, Janwillem W.H. Kocks

Medical quality control intervention for COPD patients in China: a cluster randomized, controlled trial
Fengyan Wang (Guangzhou, China), Zhenyu Liang, Yumin Zhou, Heng Zhong, Hao Hu, Yuqiong Yang, Weijuan Shi, Yuqi Li, Nansha Zhong, Rongchang Chen

Dual bronchodilation in real-life COPD management: analysis of patients' characteristics enrolled in COPD Registry in Russia
Andrey Belevskiy (Moscow, Russian Federation), Natalya Kravchenko, Larisa Samosudova, Olga Ostankova

A specialty wise practice pattern in COPD: A survey of doctors in 3 Asian countries
Abdul Razak Abdul Mutalif (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Ramesh Chokhani, Kirthi Gunasekera, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay

Influence of vaccine prevention of pneumococcus conjugated vaccine on mortality in patients with COPD
Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova

Economic impact of delayed multiple-inhaler triple therapy initiation in COPD patients
Afisi Ismaila (Cary, United States of America), Robert Wood, Glenn Anley, Yein Nam, Daniel Bluff, Leah Sansbury

Pharmacological management and risk of mortality after first COPD hospitalization (HERA)
Christer Janson (Uppsala, Sweden), Bright Nwaru, Fredrik Wiklund, Gunilla Telg, Magnus Ekström

Economic evaluation of the impact of exacerbation frequency in COPD patients treated with single-inhaler triple therapy in Spain: The IMPACT trial
Afisi Ismaila (Cary, United States of America), Laura Amanda Vallejo, Victoria Paly, Alan Martin, Nancy Risebrough, Catarina Abreu, José Luis Izquierdo, Juan Antonio Riesco, Juan José Soler-Cataluña

The effect of methlyxanthines as adjunct to corticosteroids among chronic obstructive pulmonary disease patients in acute exacerbation: a systematic review and meta-analysis
Mithi Kalayaan Zamora (Quezon City, Philippines), Daniel Guevara, Joel Santiaguel, Matthew Wayne Chang

Pre-congress session content

Session 167 00:00 - 23:59

E-poster session: COPD phenotypes

Disease(s): Airway diseases Sleep and breathing disorders

Method(s): General respiratory patient care Pulmonary function testing Epidemiology Cell and molecular biology Physiology Pulmonary rehabilitation

Chairs: Frederik Trinkmann (Heidelberg, Germany), Alejandra Lopez Giraldo (Castelldefels, Spain)

Research priorities in alpha-1 antitrypsin deficiency (AATD) for healthcare professionals
Maria Campos Miranda DuarteSucena (Porto, Portugal), Miriam Barrecheguren Fernandez, Karen O’hara, Marion Wilkens, Jeanette Boyd, Ewa Kolda, Alice Turner, Gerry Mcelvaney, Ilaria Ferrarotti, Jan Stolk, Joanna Chorostowska-Wynimko, Robert Stockley, Timm Greulich, Marc Miravitlles

Prevalence of alpha-1 antitrypsin deficiency (AATD) in Greater Glasgow and Clyde (G G & C) and current practises
Fiona Catterall (Glasgow, United Kingdom), David Anderson

ARE THERE DIFFERENCES IN EXERCISE CAPACITY BY GENDER IN COPD PATIENTS?
Virginia Almadana Pacheco (Sevilla, Spain), Cristina Benito Bernáldez, Lucia Marin Barrera, Rut Ayerbe Garcia

Phenotypic characteristics of asthmatic patients with distal airways obstruction
Nouha Guediri (Tunis, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Rihab Jebali, Hafaoua Daghfous, Tritar Fatma

Characterization of a patient population phenotyped for alpha-1-antitrypsin
Mariana Conde (Guimarães, Portugal), Bebiana Conde, Catarina Purra, Artur Vale, Ana Fernandes
Correlation between cardiorespiratory coupling and six-minute walking tests in patients with chronic obstructive pulmonary disease
Yu-Chen Huang (Taipei City, Taiwan), Tin-Yu Lin, Hau-Tieng Wu, Po-Jui Chang, Chun-Yu Lo, Shu-Min Lin, Horng-Chyuan Lin, Yu-Lun Lo

Physical activity and cardiac autonomic function in patients with COPD, a cross-sectional analysis
Laura Delgado Ortiz (Barcelona, Spain), Ane Arbilla-ga-Etxarri, Diego Rodriguez, Elena Gimeno-Santos, Anael Barberan-García, Robert Rodríguez-Roisin, Eva Balcells, Jordi Vilaró, Judith Garcia-Aymerich

Does airflow limitation severity in stable condition severity of COPD influences in patient cardiac autonomic modulation in COPD patients during hospitalization for exacerbation?
Renata Mendes (Sao Carlos (SP), Brazil), Nathany Souza Schaufauer, Débora Mayumi De Oliveira Kawakami, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nicole Marques Sgarbosa, Valeria Amorim Pires Di-Lorenzo, Audrey Borghi-Silva

Body mass index in COPD: what relationship?
Salma Mokaddem Mohsen (Tunis, Tunisia), Sahar Chakroun, Asma Chaker, Khadija Ayed, Saloua Jameleddine

Czech national alpha-1 antitrypsin registry
Jan Chlumsky (Praha 4, Czech Republic), Katerina Kusalova

RATES OF LUNG FUNCTION DECLINE DIFFERS BETWEEN COPD PHENOTYPES
Bernardino Alcazar Navarrete (Cájar, Spain), Susana Calvo Rodriguez, Laura Carrasco Hernandez, Pedro J Romero Palacios, Oliverio Ruiz Rodriguez, Jose Luis Lopez Campos

Descriptive analysis of patients admitted due to COPD exacerbation (COPDE) and COPD-pneumonia.
Isabel Muñoz Ramirez (Seville, Spain), Alfonso Marín Andreu, Carolina España Domínguez, María Morales González, Eva Vázquez Gandullo, Aurelio Arnedillo Muñoz

Relationship between CRP levels and the severity of COPD acute exacerbations among group D COPD patients.
Ahmed Ben Saad (Monastir, Tunisia), Asma Migaou, Saousen Cheikh Mhamed, Nesrine Fahem, Naceur Rouatbi, Samah Joobeur

COPD Assessment Test (CAT) scores following a digital health intervention
Leanne Kaye (San Francisco, United States of America), Rahul Gondalia, David Van Sickle, David Stempel, Meredith Barrett

The relationship between vitamin D deficiency and the main characteristics of COPD patients
Angelina Suljemanova (Moscow, Russian Federation), Irina Baranova

Current trends in the course, treatment, and outcomes of ST-segment elevation myocardial infarction (STEMI) in patients with COPD.
Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Alexandra Balitskaya, Irina Shremetyeva, Valeri Lykomov, Mohammed Alaa Abdulamir Alwash

Can extended hematological parameters of inflammation predict the severity and outcome of AECOPD?
Slavica Liška (Zagreb, Croatia), Anna-Maria Vidaković, Ivana Rako, Andrea Vukić Dugac, Miroslav Samaržija

Clinical features and factors associated current smoking in stage I COPD
Hsien-chun Lin (Taipei, Taiwan)

Key findings and quality improvement recommendatons from the national asthma and COPD audit programme (NACAP) primary care audit April 2017- September 2018
Eloya Imoedemhe (London, United Kingdom), Katherine Hickman

Pre-congress content Session 168 00:00 - 23:59
E-poster session: A fresh look at the spectrum of symptoms in respiratory disease
Disease(s): Airway diseases Sleep and breathing disorders Interstitial lung diseases Thoracic oncology
Method(s): General respiratory patient care Pulmonary rehabilitation Pulmonary function testing Palliative care Public health
Physiology
Chairs: Wendy Darlene Reid (Toronto (ON), Canada), Catarina Duarte Santos (Almada, Portugal)

Is pain a risk factor for symptom severity in patients with chronic obstructive pulmonary disease?
Ismail Ozsoy (Kırşehir, Turkey), Buse Ozcan Kahraman, Aylin Tanriverdi, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci

Pain is associated with balance and gait impairment in people with Chronic Obstructive Pulmonary Disease (COPD).
Kirsti J Loughran (Billingham, United Kingdom), Greg Atkinson, John Dixon, Denis Martin, Samantha L Harrison
Pre-congress content

Session 169  00:00 - 23:59

E-poster session: COPD and the impact of comorbidities

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

Method(s): Pulmonary function testing, Imaging, Epidemiology, General respiratory patient care, Pulmonary rehabilitation, Physiology, Public health

Chairs: Bruno Balbi (Veruno (NO), Italy), Luiza Helena Degani-Costa (São Paulo (SP), Brazil)

2452 Pain sensitivity in stable asthmatic and allergic patients
Irene Torres Sánchez (Santa Fe, Spain), Laura López López, Andrés Calvache Mateo, Alejandro Heredia Ciuró, Araceli Ortiz Rubio, Marie Carmen Valenza

2453 Sleep and cognitive impairment in COPD exacerbated and stable patients
Irene Torres Sanchez (Santa Fe, Spain), Esther Prados Román, Natalia Muñoz Viguera, Laura López López, Araceli Ortiz Rubio, Marie Carmen Valenza

2454 Cognitive impairment is present in people with chronic obstructive pulmonary disease
Lissa Spencer (Sydney (NSW), Australia), Wing S. Kwok Kwok, Amanda Mcanulty, Jennifer Alison

2455 Working memory impacts endurance for dyspnea
Kazuhiro Kinpara (Hamamatsu, Japan), Shinichi Arizono, Maki Tanaka, Yuichi Tawara

2456 Can a single bout of treadmill walking improve cognition in people with chronic obstructive pulmonary disease: randomised controlled trial?
Wing Kwok (NSW, Australia), Lissa Spencer, Amanda Mcanulty, Jennifer Alison

2457 Severe fatigue is highly prevalent in patients with interstitial lung disease
Ada E.M. Bloem (Utrecht, Netherlands), Rémy L.M. Mostard, Naomi Stoot, Jan H. Vercoleun, Jeannette B. Peters, Daisy J.A. Janssen, Jan W.H. Custers, Martin A. Spruit

2458 Fatigue in COPD and the impact of multi-morbidity

2459 Unravelling associations of fatigue and key outcomes in patients with COPD
Patricia Filipa Sobral Rebelo (Trancoso, Portugal), Ana Oliveira, Catha Paixão, Sara Souto-Miranda, Ana Machado, Ana Alves, Joana Cruz, Cristina Jácome, Sara Almeida, Ana Helena Tavares, Alda Marques

2460 Association Between Pain Level and Fatigue Level with Activities of Daily Living in Lung Cancer Patients Receiving Inpatient Cancer Therapy: A Pilot Study
Vesile Yildiz Kabak (Ankara, Turkmenistan), Fulya Ipek, Songul Atasavun Uysal, Tulin Duger

2461 How does EQ-5D-3L and HADS questionnaires perform in patients with COPD?
Henrik Hansen (Dragør, Denmark), Theresa Bieler, Nina Beyer, Anne Frølich, Thomas Kallemose, Nina Godtfedsen

2462 The relationship between kinesiophobia due to chronic pain and physical functioning in patients with COPD
Takako Tanaka (Nagasaki, Japan), Minoru Okita, Ryo Kozu

2463 The relationship between kinesiophobia, dyspnea level, functional exercise capacity and quality of life in patients with chronic obstructive pulmonary disease
Buse Ozcan Kahraman (Izmir, Turkey), Ismail Ozsoy, Aylin Tanriverdi, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci

2464 Validity and reliability of the Turkish version of the Multidimensional Dyspnea Profile in outpatients with respiratory disease
Buse Ozcan Kahraman (Izmir, Turkey), Turhan Kahraman, Ismail Ozsoy, Aylin Tanriverdi, Aslı Papurcu, Nazenin Hande Sezgin, Karya Polat, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci

2465 Impact of a Specialist Breathlessness Group
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Joseph Donohoe, Linda Jones, Joanne Hillis, Sarah Sibley, Dennis Wat

2466 Evaluation of a new Numerical Rating Scale for quality of life for Dysfunctional Breathing
David Ford (Scarborough (North Yorkshire), United Kingdom), Vicky Watson, Miriam J Johnson

Late Breaking Abstract - Silent exacerbations: underreporting of COPD exacerbations in Poland
Malgorzata Farnik (Katowice, Poland), Dorota Brzostek
Late Breaking Abstract - Burden of pertussis in COPD: a retrospective database study in England
Kinga Meszaros (Wavre, Belgium), Emmanuel ARIS, Esse Ifebi Akpo, Amit Bhavsar, Lauriane Harrington, Evie Merinopoulou, Nicola Sawalhi-Leeckenby, Elisa Turriani, Dimitra Lambrelli, Piyali Mukherjee

Late Breaking Abstract - Compare outcomes between COPD patients treated with Tiotropium/Olodaterol (TIO/OLO) and other fixed-dose LAMA/LABAs
Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston

Clinical features of eosinophilic COPD
Askin Gülsen (Izmir, Turkey), Bercu Arpinar Yigitbas, Berat Uslu

Role of interleukin 6 in COPD patients over nine years
Robson Prudente (Botucatu (SP), Brazil), Carolina Mesquita, Estefânia Franco, Renata Ferrari, Irma Godoy, Suzana Tanni

Transforming growth factor beta 1 (TGF-ß1) level as a marker of COPD severity
Tetyana Pertseva, Daria Koval

Prevention of COPD exacerbations using nebulization with an electrolytic silver solution
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Elena Bogdanova, Alexander Emelyanov, Anatoly Fesyun, Andrei Rachin, Gleb Barashkov, Anfisa Nikitina, Andrei Popov

Factors associated with exacerbations in patients with COPD: NOVELTY study
Hana Müllerová (Ickenham, United Kingdom), Bo Ding, Eleni Rapsomaniki, Richard Beasley, J Mark Fitzgerald, Tim Harrison, Rod Hughes, Jose Maria Olaguibel, Helen K Reddel, Precil Varghese, Mohsen Sadatsafavi, Christer Janson

Effect of multiple Comorbidities on Mortality in COPD
Won-Kyung Cho (SEOUL, Republic of Korea), Ye-Jee Kim

Skeletal muscle dysfunction among COPD patients in Eastern Europe
Vitalii Poberezhets (Vinnytsia, Ukraine), Szymon Szczyński, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobczyk, Yurij Mostovoy, Adam Barczyk

Characteristics of patients with homogeneous and heterogeneous emphysema
Mostafa Bakeer (Mansoura, Egypt), Marina Duller, Kelly Groß, Georg-Christian Funk, Anshig Valipour

Influence of coexistent Chronic Obstructive Pulmonary Disease as Heart Failure in linear and nonlinear dynamics of Heart Rate Variability
Patricia Camargo (Araraquara, Brazil), MURILLO OLIVEIRA, Cássia Goulart, Guilherme Peixoto, Poliana Santos, Patricia Camargo, Renata Mendes, Flávia Caruso, Audrey Borghi-Silva

Early signs of COPD in 42 years old individuals with severe alpha-1-antitrypsin deficiency
Georg Schramm (Trelleborg, Sweden), Eeva Pitulainen, Per Wollmer, Hakan Tanash

COPD burden on sexual well-being
Julia Rubenstein (France), Maeva Zysman, Frédéric Le Guillo, Marie-Hélène Colson, Christiane Pochulo, Leo Grassion, Roger Escamilla, Daniél Piperno, Joel Pon, Chantal Raherison-Semjen

Diagnostic value of N-terminal pro-brain natriuretic peptide in patients with COPD with chronic hypoxemic respiratory failure.
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Darya Sklyarova, Vladimir Volchkov, Elizaveta Volchkova

Association between right heart failure and endothelial dysfunction in COPD patients
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Yael Ramiro Gastelum Ayala, Rocio Sanchez Santillan, Arturo Orea Tejeda, Dulce Gonzalez Islas, Ilse Perez Garcia, Oscar Ubaldo Martinez Reyna, Nathalie Martinez Luna, Valeria Ariadna Martinez Vazquez, Martha Elena Quintero Martinez, Silvia Cadru Juarrez, Héctor Perea Gutierrez, Stephanie Gisel Montoya Azpeitia, Carlos Espinoza De Los Monteros Sanchez

DIFFERENCES IN THE QUALITY OF LIFE BETWEEN PATIENTS WITH LEFT HEART FAILURE AND RIGHT HEART FAILURE SECONDARY TO COPD
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karen Aide Santillan Reyes, Viridiana Peláez Hernández, Laura Arely Martinez Bautista, Karla Leticia Rosales Castillo, Lizzbet Luna Rodriguez, Arturo Orea Tejeda, Oscar Ubaldo Reyna Martinez, Valeria Ariadna Martinez Vazquez

Are the mMRC dyspnea scale of 2 and a CAT score of 10 equivalent as proposed by the GOLD strategy?
Virginia Alvarez (zaragoza, Spain), Juan Luis Quevedo Marín, Maria Betrán Orduna, Zichen Ji, Maria Fernando Moreno, Alfonso Pérez Trullen, Javier De Miguel-Diez
Pre-congress content  Session 170  00:00 - 23:59

E-poster session: Advance in treatments for sleep and breathing disorders and long-term adherence

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

**Method(s):** Epidemiology  General respiratory patient care  Imaging  Public health  Pulmonary rehabilitation  Physiology

**Chairs:** Jean-Louis Pépin (Grenoble, France), Dries Testelmans (Leuven, Belgium)

**2487**

**Association between continuous positive airway pressure, weight change and glycemic control in patients with type 2 diabetes**
Louisa Schaller (Kümmersbruck, Germany), Michael Arzt, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Stadler

**2488**

**Bone Metabolism in OSA Patients and the Effect of One Year Treatment with Non-Invasive Ventilation**
Daniela Krasimirova (Sofia, Bulgaria), Daniela Petrova, Ognian Georgiev, Radoslav Bilyukov, Tsanko Mondeshki, Ventsislava Pencheva, Svetla Naydenska, Martin Nikolov, Petko Shoshkov

**2489**

**Risk factors for non-compliance with continuous positive airway pressure therapy in patients with obstructive sleep apnea and paroxysmal atrial fibrillation**
Gunn Marit Traaen (Oslo, Norway), Maria Kristina Vik-Strandli, Britt Overland, Lars Aakerøy, Tove-Elizabeth Hunt, Christina Bendz, Nina Bredezen, Lars Øvind Sande, Svend Aakhus, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Jan Pål Loennechen, Harriet Akre, Lars Gullestad

**2490**

**Telecoaching to improve physical activity in patients with obstructive sleep apnea treated with CPAP**
Bart Vrijsen (Linkhout, Belgium), Thierry Troosters, Bertien Buyse, Pham Anh Hong Nguyen, Dries Testelmans

**2491**

**A comparison of sleep disordered breathing events detected by CPAP devices with in-lab polysomnography**
Georg Nilius (Dortmund, Germany), Maiko Schroeder, Ulrike Domanski, Matthias Richter

**2492**

**The frequency of medical co-morbidities and their impact on adherence to upper airway stimulation for obstructive sleep apnea.**
Patrick Strollo (Pittsburgh, United States of America), Ryan Soose, Clemens Heiser, Armin Steffen, Joachim Maurer, Olivier Vanderveken

**2493**

**Prevalence and determinants of residual excessive daytime sleepiness (RES) in patients treated with continuous positive airway pressure (CPAP) for obstructive sleep apnea (OSA).**
Renaud Tamisier (Grenoble, France), Jessica Richoux, Sébastien Bailly, Sébastien Bailleul, Rita Guzun, Marie Destors, Jean Louis Pépin

**2494**

**Effects of shifts between nasal- and oronasal masks on positive airway pressure adherence: analysis of a German healthcare provider database**
Michael Arzt (Regensburg, Germany), Christoph Schoebel, Joachim H Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Holger Woehrle

**2495**

**Blood pressure reduction following treatment with positive airway pressure in sleep apnea - data from the ESADA**
Ludger Grote (Göteborg, Sweden), Sven Svedmyr, Jan Hedner, Ding Zou, Sebastien Bailly, Carolina Lombardi, Ondrej Ludka, Marisa Bonsignore, Jean-Louis Pépin, Sofia Schiza, John Arthur Kvatman, Ozen K. Basoglu, Johan Verbraecken

**2496**

**Impact of different positive airway pressure therapy care models on longer-term therapy termination rates**
Holger Woehrle (Ulm, Germany), Jochen Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Christoph Schoebel, Michael Arzt

**2497**

**CPAP treatment increases anxiety in coronary artery disease patients with nonsleepy obstructive sleep apnoea: The RICADSA randomized controlled trial**
Yeliz Celik (Istanbul, Turkey), Erik Thunström, Patrick J Strollo, Yüksel Peker

**2498**

**Negative Affectivity and Social Inhibition influences adherence to positive pressure treatment in patients with sleep respiratory disorders**
Sebastian Rodriguez-Llamazaes (Ciudad de México, Mexico), Margarita Reyes-Zúñiga, Yadira Rodriguez-Reyez, Juan Sebastián Reyes-Silva, Selene Guerrero-Zúñiga
High flow-nasal cannula oxygen treatment in patients with concomitant severe chronic obstructive pulmonary diseases and mild-moderate sleep apnea (overlap syndrome).
Lucia Spicuzza (Sant’Agata Li Battiati (CT), Italy), Raffaele Campisi, Claudia Crimi, Stefano Alia, Marialuisa Giuffrida, Nunzio Crimi

Effects of positive airway pressure (PAP) modalities on central apnea and crackles in heart failure
Maree Milross (Sydney, Australia), Mark Norman, Michael Wilson, Gary Baker, Colin Sullivan

Acetazolamide is effective treatment of Cheyne-Stokes respiration in patients with chronic heart failure
Alexander Palman (Moscow, Russian Federation), Mariya Poltavskaya, Kliya Sorokina

Treatment of patients with complex and central sleep-disordered breathing with adaptive servo-ventilation (ASV): the READ-ASV registry
Michael Arzt (Regensburg, Germany), Oliver Munt, Holger Wochrle, Raphael Heinzer, Adam Benjaffel, Jean-Louis Pepin

The role of positive airway pressure treatment for Obstructive Sleep Apnea in Pulmonary Embolism
Joana Patrícia Almeida Borges (Coimbra, Portugal), Fátima Fradinho

Pre-congress content  

Session 171  

00:00 - 23:59

E-poster session: Phenotyping sleep-disordered breathing and its impact on various diseases

Prevalence of obstructive sleep apnea in acute phase of pulmonary embolism: Preliminary results of ESAET study
Grace Jacqueline Oscullo Yepez (Valencia, Spain), Alberto Garcia Ortega, Eva Mañas Baena, Raquel Lopez Reyes, Aldara Garcia Sanchez, Irene Cano Pumarega, Juan Jose Jimenez Aguilella, Pilar Calvillo Batles, Jose Daniel Gomez Olivas, Alba Ceveró Rubio, Enrique Zaldivar Olmeda, Tomas Posadas Blázquez, Maria Jose Selma Ferrer, David Jimenez Castro, Miguel Angel Martinez Garcia

Changes in the difference between subjective and objective sleep duration according to sleep duration or sleep disordered breathing: The Nagahama Study
Naomi Takahashi (Kyoto, Japan), Takeshi Matsumoto, Yoshinari Nakatsuka, Kimihiko Murase, Yasuharu Tabara, Hirofumi Takeyama, Takuma Minami, Satoshi Hamada, Osamu Kanai, Kiminobu Tanizawa, Isuzu Nakamoto, Takahisa Kawaguchi, Kazuya Setoh, Takanobu Tsutsumi, Yoshimitsu Takahashi, Tomohiro Handa, Tomoko Wakamura, Naoko Komenami, Toyohiro Hirai, Fumihiko Matsuda, Takeo Nakayama, Kazuo Chin

Sleep apnea after lung transplantation: a cohort study
Dries Testelmans (Leuven, Belgium), Kathleen Schoovaerts, Catharina Belge, Stijn Verleden, Robin Vos, Geert Verleden, Bertien Buyse

Daytime approach to Obstructive Sleep Apnea phenotyping
Roberto Magri (Roncadelle, Italy), Luciano Corda, Laura Pini, Lara Bertolovic, Fabio Spreafico, Claudio Tantucci

Sleep function impairment in relation with obstructive sleep apnea and obesity: the Rotterdam Study
Sara Wijnant (Gent, Belgium), Annemarie Luik, Thom Leysen, Arfan Ikram, Lies Lahousse, Guy Brusselle

The prevalence of obstructive sleep apnea (OSA) in patients with severe asthma and the association between severity of OSA and asthma control
Fatema Al Lawati (Muscat, Oman), Mohammed Al Abri, Saif Al Mubaihsi, Sayed Rizvi

Peripheral arterial tonometry versus polysomnography in suspected obstructive sleep apnea
Matthias Herrmann (Basel, Switzerland), Simon Veitz, Desiree Schumann, Werner Strobel, Michael Tamm, Daiana Stolz

Impact of cardiac sympathetic denervation on IH-induced ischemic cardiomyopathy aggravation
Maximin Détrait (La Tronche, France), Jonathan Gaucher, Sophie Bouyon, Jean-Louis Pepin, Elise Belaidi, Claire Arnaud

Pulse wave analysis for recognition of cardiovascular risk in sleep apnea patients
Christian Strasserberger (Gothenburg, Sweden), Ding Zou, Thomas Penzel, Ingo Fietze, Jan Hedner, Joachim Ficker, Winfried Randerath, Bernd Sanner, Dirk Sommermeyer, Ludger Grote
Night-to-night variability of respiratory events in obstructive sleep apnoea: a systematic review and meta-analysis
Matteo Bradicich (Basel, Switzerland), Maurice Roeder, Thomas Gaisl, Sira Thiel, Esther Irene Schwarz, Ulrike Held, Malcolm Kohler

Sleep-disordered breathing and incident malignancy in type 2 diabetes
Sarah Friendl (Regensburg, Germany), Michael Arzt, Claudia S. Zimmermann, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Stadler

A novel multicomponent grading system for obstructive sleep apnoea severity applied in the ESADA cohort
Simon Dominik Herkenrath (Köln, Germany), Winfried Randerath, Marcel Treml, Ludger Grote, Jan Hedner, Maria R Bonsignore, Jean-Louis Pépin, Silke Ryan, Sofia Schiza, Johan Verbraecken, Walter T Menicholas, Athanasia Pataka, Pawel Sliwinski, Ozen K Basoglu

A complex network approach for gender phenotyping of patients with obstructive sleep apnoea syndrome
Stefan A. Mihaicuta (Timisoara (Timis), Romania), Alexandru Topirceanu, Mihai Udrescu, Lucretia Udrescu

Association between obstructive sleep apnoea and cancer in men in the general population after 20 years of follow-up
Carmen Rodríguez Calle (Madrid, Spain), Diurbis Velasco Alvarez, Francisco Xavier Leon Roman, Edwin Mercedes Noboa, Aldara Garcia Sanchez, Eva Mañas Baena, Irene Cano Pumarega

Sleep disordered breathing (SDB) at moderate altitude and changes after a short period of acclimatization (48 h.)
Gustavo Juan Samper (Valencia, Spain), Sara Salvador Fernandez, Estrella Fernandez Fabrellas, Rafael Navarro Ivañez, Cristina Navarro Soriano

Prevalence and Impact of Sleep Disordered Breathing (SDB) in Hospitalized Patients with Heart Failure with Preserved Ejection Fraction (HFpEF)
Nihal Patel (Columbus, United States of America), Kyle Porter, Joshua Englert, Rami Khayat

The role of hepcidin in early diagnostic of atherosclerosis in OSA
Ventsislava Pencheva Genova (Sofia, Bulgaria), Viktor Manolov, Ognian Georgiev, Vasko Vasilev, Radoslava Emilova, Irena Petrova, Savina Hadjidekova, Marieta Karadjova, M Nikolova, Georgi Angov, I Petrova-Ivanova, Todor Kunchev, Kamen Tzatchev, Latchezar Traykov

PERIPHERAL ARTERIAL TONOMETRY AND INTIMA MEDIA THICKNESS IN OBSTRUCTIVE SLEEP APNEA.
Javier Errasti Viader (Pamplona (Navarra), Spain), Maria Teresa Martin Carpi, Jose Maria Marin Trigo, Victoria Gil, Raquel Langarita

The clinical significance nocturnal hypoventilation (NH) in patients with severe obstructive sleep apnoea (OSA)
Shirley Coelho (Viana do Castelo, Portugal), Richard Glover, Alain Al Helou, Mindi Daniels, Vicky Moore, Rahul Mukherjee

Is there a relationship between sleep apnea and microalbuminuria?
Melek Cihanbeylerden (Ankara, Turkey), Melike Bağnu Yüceeee, Bahar Kurt

Automated office blood pressure measurement increases prevalence of masked hypertension in patients with obstructive sleep apnoea
Milan Sova (Olomouc, Czech Republic), Samuel Genzor, Eliska Sovova, Marketa Sovova, Katarina Moravcova, Shayan Nadjarpour

Optic Nerve Dysfunction in Obstructive Sleep Apnoea-Hypopnoea Syndrome
Teresa Diaz De Teran Lopez (Santander, Spain), Mónica González, Alfonso Casado, Claudia Nebot, Kimberley Lee, Alicia Lopez De Eguielita, Fabiola Escobar, Marta Cabello, Juan José Ruiz, Marián Martínez, Soraya Fonseca, Carlos Queipo

Cardiovascular comorbidity by clinical phenotypes of obstructive sleep apnoea and sleeping hours
Anna Torrente Nieto (Reus, Spain), Eric Rojas Calvera, Marta Plana Pes, Anton Obrador Legares, Immaculada Castellà Dagà, Mercè Salvans Sagué, Émilie Marco Segarra, Xavier Esquena Capote, Daniela Soledad Torres Scianca, Susana Mota Casals, Marc Comas Cufí, Rafel Ramos Blanes, Ramon Orios Martinez
Is Obstructive Sleep Apnea a risk factor for Gestational Diabetes?
Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mochales, Caterina Ribot Quetglas, Maria Barceló Nicolau, Ainhoa Alvarez Ruiz De Larriaga, Antonia Barceló Bemasar, Amanda Iglesias Coma, Daniel Morell Garcia, Mónica De La Peña Bravo, José Antoio Peña Zarza, Margarita Bosch Artigues, Maria Paloma Giménez Carrero, Joaquin Durán Cantolla, José Maria Marin Trigo, Mercedes Codina Marcet, Paula Rodríguez Rodriguez, Carla Pia Martinez, Maria Concepción Piñas Cebrían, Andrés Sánchez Barón, Alberto Alonso Fernández, Francisco García Rio

Renal function impairment and prediction of sleep apnea in patients with high cardiovascular risk
Stefan A. Mihaiicuta (Timisoara (Timis), Romania), Roxana Maria Plea, Stefan Frent, Carmen Ardelean, Svetlana Mosteoiu, Dan Gaita

Sleep Disordered Breathing association with cardiovascular disease in the French general population
Pauline BALAGNY (Paris, France), Emmanuel Wiernik, Joane Matta, Justine Fria Masson, Emmanuelle Vidal Petiot, Philippe Gabriel Steg, Céline Ribet, Marcel Goldberg, Marie Zins, Marie-Pia D'Orthe

Conicity index as prognostic factor of major cardiovascular events in obstructive sleep apnea
Daniel López Padilla (Madrid, Spain), José Rafael Terán Tinedo, Milagros Llanos Flores, Elena R. Jimeno, Zichen Ji, Virginia Gallo González, Alicia Cerezo Lajas, Elena Ojeda Castillejo, Soledad López Martin, Luis Puente Maestu

High CRP plasma levels in OSA patients correlate with high Pichot fatigue scale score
Nikolay Evgeniev (Ruse, Bulgaria), Rumelia Nikolova, Nikolay Conev, Ivan Donev

Serum fibrinogen in patients with obstructive sleep apnea
Kunal Khanderao Deokar (Thane (Maharashtra), India), Gopal Chawla, Nana Kunjir, Chetna Meshram

Prevalence of abnormalities of the right heart chambers evaluated by echocardiography during OSA
Khalil Zayen (Ariana, Tunisia), Houda Snen, Ramy Thili, Hana Blibeck, Jalloul Daghfous, Youssef Ben Ameur, Nozha Ben Salah, Nadia Mhiri, Bechir Louzir

Moderate-to-severe sleep apnea is associated with elevated amino acid levels in peripheral blood
Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Ketlin Veevälõ, Ragne Tamm, Triin Laurits, Birgit Ahas, Martin Juss, Tuuliki Hion, Roman Pihlakas, Kalle Kilk, Ursel Soomets, Alan Altraaja

Relationship between obstructive sleep apnea and human leukocyte antigen variants
Adil Zamani (Konya, Turkey), Ayse Gul Zamani, Sebnem Yosunkaya, Hulya Vatansev, Selman Yildirim

Metabolic syndrome in moderate to severe obstructive sleep apnea
Hana Mrassi (Tunis, Tunisia), Samira Mhamdi, Zayen Khalil, Islam Mejri, Mohsen Khadhraoui

Characterization of very severe sleep apneas and assessment of metabolic risk
Glenda Ernst (Ciudad Autónoma Buenos Aires, Argentina), Melina Sabán, Miguel Schiavone, Magali Blanco, Alejandro Salvado, Eduardo Borsini

Impact of sleep-disordered breathing on sternal wound complications after elective coronary artery bypass grafting surgery
Johannes Zilch (Schwadorf, Germany), Maria Tafelmeier, Simon Lebek, Bernhard Floerchinger, Daniele Camboi, Marcus Creutzenberg, Florian Zeman, Christof Schmidt, Lars S. Maier, Stefan Wagner, Michael Arzt

Sleep perception in obstructive sleep apnea: Is it worth to ask?
Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Lopes Figueiredo, Mariana Calheiros Cabral, Maria Alexandra Mineiro, Ricardo Luiz De Menezes Duarte, João Almeida Cardoso, Flavio José Magalhães Da Silveira

Performance of Brief ICF-Sleep Disorders and Obesity Core Set in OSA Patients
Liang Xie (Shanghai, China), Shanqun Li

Pre-congress content
Session 173
00:00 - 23:59

E-poster session: From pathophysiology to clinical consequences of sleep and breathing disorders

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

Method(s): Physiology, General respiratory patient care, Respiratory intensive care, Surgery, Cell and molecular biology, Epidemiology

Chairs: Andrea Crespo Sedano (Valldolid, Spain), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

Impact of sleep-disordered breathing on sternal wound complications after elective coronary artery bypass grafting surgery
Johannes Zilch (Schwandorf, Germany), Maria Tafelmeier, Simon Lebek, Stephan Hirt, Bernhard Floerchinger, Daniele Camboi, Marcus Creutzenberg, Florian Zeman, Christof Schmidt, Lars S. Maier, Stefan Wagner, Michael Arzt

Sleep perception in obstructive sleep apnea: Is it worth to ask?
Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Lopes Figueiredo, Mariana Calheiros Cabral, Maria Alexandra Mineiro, Ricardo Luiz De Menezes Duarte, João Almeida Cardoso, Flávio José Magalhães Da Silveira

Performance of Brief ICF-Sleep Disorders and Obesity Core Set in OSA Patients
Liang Xie (Shanghai, China), Shanqun Li
Association between sleep hours and cardiovascular-cerebrovascular morbidity, mortality and cancer

Influence of Obstructive Sleep Apnea on systemic inflammation in pregnancy
Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mocheles, Caterina Ribot Quetaglas, Maria Barcelo Nicolau, Ainhoa Alvarez Ruiz De Larriaga, Antonia Barcelo Bennasar, Amanda Iglesias Coma, Daniel Morell Garcia, Monica De La Pea Bravo, Jose Antonio Pea Zarza, Margarita Bosch Artigues, Maria Paloma Gimenez Carrero, Joaquin Duran Cantolla, Jose Maria Marin Trigo, Mercedes Codina Marcet, Paula Rodriguez Rodriguez, Carla Pia Martinez, Maria Concepcion PiLas Cebrini, Andres Sanchez Barin, Alberto Alonso Fernandez

Obstructive Sleep Apnea causes negative impact on parasympathetic modulation of patients with COPD
Patricia Camargo (Araraquara, Brazil), Luciana Di Thommazo-Luporini, Rayane Sebold, Cassia Goulart, Polliana Santos, Renan Marinho, Audrey Borghi-Silva

Structural cardiac changes during REM and non-REM sleep in patients with myocardial infarction.
Elvira Bondia Real (Valencia, Spain), Jose Gavara, Cesal Navarro, Vicente Bodi, Maria Pilar Bynuls, Paolo Racugno, Maria Pilar Lopez-Lereu, Jose Vicente Mommenue, Claudia Heras, Jaime Signes

Echocardiography findings in patients with obstructive sleep apnea syndrome
Touil Imen (Mahdia, Tunisia), Keskes Boudawara Nadia, Bouchareb Soumaya, Ibn Hadj Amor Hassan, Chebhi Rhieb, Hasnaoui Mohamed Taha, Ben Rhouma Raja, Bouchnak Iskander, Knani Jalel, Boussofara Leila

Evaluation of the executive functions of the brain in adult patients with obstructive sleep apnea syndrome
Ourania Kotsiou (Larissa, Greece), Dimitri Siachpazidou, Chaido Pastaka, Nicholas-Tiberio Economou, Chriissi Hatzoglou, Vasileios Stavrou, Evridoxia Gogou, Charalampos Varsamias, George Saitanidis, Konstantinosourgoulionis

Sleep-induced HRV changes and OSA in the ESADA cohort
Carolina Lombardi (Milano (MI), Italy), Andrea Faini, Paolo Castiglioni, Elisa Perger, Ludger Grote, Johan Verbraecken, Gianfranco Parati

Prevalence of obstructive sleep apnea in patients weaned from prolonged mechanical ventilation
barbara fusar poli (pavia, Italy), Cecilia Burattini, Cinzia Lastoria, Niccolino Ambrosino, Piero Ceriana, Annalisa Carlucci

Impact of obstructive sleep apnea and CPAP treatment on mortality and cardio cerebrovascular consequences in men of the general population after 20 years of follow-up.
Beatriz Pintado Cort (Madrid, Spain), Andrea Perez Figuera, Carmen Rodriguez Calle, Diurbis Velasco Alvarez, Francisco Xavier Leon Roman, Edwin Mercedes Noboa, Laura Pozuelo Sanchez, Aldara Garcia Sanchez, Eva Manas Baena, Carlos Egea Santaolalla, Joaquin Duran Cantolla, Alfonso Muriel, Irene Cano Pumarega

Impact of nocturnal oximetry on mortality and cardiovascular consequences in the general population after 20 years of follow up
Andrea Carolina Perez Figuera (Madrid, Spain), Beatriz Pintado, Diurbis Velasco, Carmen Rodriguez, Aldara Garcia, Eva Manas, Carlos Egea, Irene Cano Pumarega

Pre-congress content
Session 174 00:00 - 23:59

E-poster session: From respiratory physiology to diagnosis and treatment
Disease(s) : Sleep and breathing disorders  
Method(s) : Epidemiology  
Chairs : Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Pierantonio Laveneziana (Paris, France)

Comparison of low-dose CT image registration-based metrics of regional ventilation distribution with global lung function and diffusion capacity in COPD patients
Sam Bayat (Grenoble, France), Ludovic Broche, Mohammed Machichi, Sebastien Bailly, Bruno Degano, Renaud Tamisier, Gilbert R. Ferretti, Jean-Louis Pepin

The “right way” to the left chamber in non-severe chronic obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

Role of lung hyperinflation on cardiac function during acute exacerbations of COPD
Andrea Cristiano (Pesciera Borromeo (MI), Italy), Maurizio Rizzi, Dejan Radovanovic, Chiara Di Simone, Giuseppe Croce, Giangiuseppe Negretto, Pierachille Santus
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<td>E-poster session: Physiological and cellular mechanisms affecting pulmonary pathologies</td>
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<td>Disease(s): Respiratory critical care, Interstitial lung diseases, Airway diseases, Sleep and breathing disorders</td>
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<td>Method(s): Cell and molecular biology, Pulmonary function testing, Physiology, Respiratory intensive care, Imaging, Pulmonary rehabilitation</td>
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<td>Chairs: Pieter S. Hiemstra (Leiden, Netherlands), Maria Granados Santiago (Alcaudete, Spain)</td>
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<td>Correlation of bronchial inflammation pattern and airway response to cold stimulus in patients with uncontrolled asthma</td>
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<td>Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B Pirogov, Anna G. Prikhodko, Victor P. Kolosov, Andrey N. Odireev</td>
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2570 Are genetic defects of dienin a key link in the pathogenesis of COPD? 
Vyacheslav Kobyljansky (Moscow, Russian Federation), Lubomyr Zaiats

2571 State of the cellular components of the surfactant system in case of experimental diabetes mellitus. 
Yuliya Fedorchenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaiats

2572 Influence of nutritional features on the generation of reactive oxygen species in the lungs 
Igor A. Klimanov (Moscow, Russian Federation), S.K. Soodaeva, E.A. Zaprudova, T.V. Li, L.Yu Nikitina, M.V. Glukhova, N.A. Popova, N.I. Kubysheva

2574 PURINERGIC SIGNALING AND LYMPHOID ORGANS ARE INVOLVED IN THE BENEFICIAL EFFECTS OF AEROBIC TRAINING IN ASTHMA 
Rodolfo De Paula Vieira (São José Dos Campos (SP), Brazil), Manoel C. Oliveira-Junior, Alana Santos-Dias

2575 Absence of P2X2 purinergic receptors in human taste bud innervation 
Thomas Finger (Aurora, United States of America), Brigit High

2576 DYNAMICS OF GLUTATION SYSTEM INDICATORS IN CHRONIC LUNG DISEASES ON MODEL INHALED TREATMENT 
Lilia Todoriko (Chernivtsi, Ukraine), Mykola Humenyuk, Ihor Semianiv, Tania Sprynsian

2577 Identifying the impact of donor-origin on the therapeutic potential of umbilical cord MSCs to attenuate lung injury in a hyperoxic rodent model of bronchopulmonary dysplasia. 
Chanèle Cyr-Depauw (Ottawa (ON), Canada), Arul Vadivel, David Cook, Ivana Mižiková, Laurent Renesme, Yupu Deng, Shumei Zhong, Marius Alexander Möbius, Bernard Thébaud

2578 Physiological and Immunological Effects of Naive and Pre-Activated Mesenchymal Stromal Cells in Klebsiella Pneumoniae-Induced Sepsis in Rats 
 Claire Masterson (Galway (Co Galway), Ireland), Declan Byrnes, Hector Gonzalez, Daniel O'Toole, Sean McCarthy, Shahd Horie, Jack Brady, John Laffey

2579 Therapeutic potential of mesenchymal stem cells to attenuate immune cell tolerance in a late stage model of sepsis 
Declan Byrnes (Galway (County Galway), Ireland), Claire Masterson, Shahd Horie, Jack Brady, Hector Gonzalez, Sean McCarthy, Daniel O'Toole, John Laffey

2580 Stromal cell diversity and functions in lung epithelial regeneration 
Paris Papagianis (Melbourne, Australia), Jonathan McQualter

2581 Activation of WNT co-receptor LRP5 is required for WNT and TGF-β-induced fibroblast activation 
Ewa Kolosionek (Göteborg, Sweden), Rajneesh Malthotra, Henric Olsson, Stephen Delaney

2583 c-Met expression induction in immune cells modulates pulmonary fibrosis progression 
Catarina Barbosa-Matos, Caroline Borges-Pereira, Sofia Libório-Ramos, Massimiliano Mazzone, Sandra Costa

2584 ¿Idiopathic pulmonary fibrosis or interstitial lung disease associated to connective tissue diseases? Endothelial progenitor cells as a potential tool for the differential diagnosis 

2585 Stress protein expression in lung fibroblasts and BAL cells in COPD patients and healthy subjects. 
Martin Ryde (Lund, Sweden), Nicole Van Der Burg, Julie Weidner, Jaro Ankerst, Gunilla Westergren-Thorsson, Leif Bjermer, Ellen Tufvesson

2586 Role of the kinase-dependent functions of RIPK1 in COPD 
Hannelore Van Eekhoutte, Yves Dondelinger, Tom Delanghe, Peter Vandenaeele, Guy G. Brusselle, Mathieu J.M. Bertrand, Ken R. Bracke

2587 Combined genome-wide transcriptomic and epigenetic profiling across disease stages identifies novel regulators of COPD in human lung fibroblasts 
Renata Jurkowska (Cardiff (Wales), United Kingdom), Uwe Schwartz*, Maria Llamazares*, Stephanie Pohl, Mandy Richter, Michael Schuler, Corinna Keller, Vedrana Mijosek, Thomas Muley, Karsten Quast, Joscika Hey, Claus Peter Heufel, Arne Warth, Giuseppe Petrosino, Raluca Tamas, Dieter Weichenhan, Benedikt Brors, Vladimir Benes, Felix Heath, Dawid Wyatt, Heiko Stahl, Christoph Plass

2588 The lung DNA methylation profile of patients with COPD: relationship with smoking and airflow limitation severity. 
Sandra Casas Recasens (Barcelona, Spain)
extracellular vesicles produced by bronchial epithelial cells in response to oxidative stress contain micro-RNAs associated with senescence

Justine Devulder (London, United Kingdom), Justine Devulder, Jonathan R Baker, Louise E Donnelly, Peter J Barnes

Pre-congress content

Session 176 00:00 - 23:59

E-poster session: Prevalence and incidence of chronic lung diseases

Disease(s): Airway diseases, Thoracic oncology, Respiratory critical care

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

Chairs: Lydia Finney (London, United Kingdom), Sundeep Santosh Salvi (Pune (Maharashtra), India)

2589 The first years of the Swedish National Airway register
Caroline Stridsman (Luleå, Sweden), Jon Konradsen, Lowie Vanfleteren, Christophe Pedroletti, Jonas Binnmyr, Peter Edfelt, Yvonne Sjöö, Kerstin Fjällman-Schärberg, Ann Lindberg, Alf Tunsäter, Ann Ekberg Jansson

2590 Current state of respiratory disease in Suriname, a retrospective analysis of 4987 hospital files
Jessica de Vries (Paramaribo, Suriname), Fitzgerald Gopie, Martijn Spruit, Jerry Toelsie

2591 Effect of non-response on prevalence of respiratory symptoms in the West Sweden Asthma Study.
Eivind Christian Borna (Moss, Norway), Cathrine Gennert Jakobsson, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

2592 Frequency of eosinophilic granulomatosis with polyangiitis in Europe by meta-analysis
Rupert Jakes (London, United Kingdom), Namhee Kwon, Rebecca Goulding, Beth Nordstrom, Kyle Fahrbach, Melissa Van Dyke

2593 Association between chronic obstructive pulmonary disease and endometriosis: a population-based cohort study
Yi-Hao Peng (Taichung, Taiwan)

2594 Prevalence of COPD in women in Tizi-Ouzou, Algeria
Nadia Hammache (Alger, Algeria), Salim Nafti, Rachid Abdellaziz

2595 Towards Optimum Reporting of Pulmonary Effectiveness Databases and Outcomes (TORPEDO): a modified Delphi exercise to identify a core dataset for asthma and COPD studies
Job F.M. van Boven (Groningen, Netherlands), Sarah Lucas, Gary Parker, Katia Verhamme

2596 SCREENING FOR UNDERDIAGNOSED CHILDHOOD ASTHMA IN BATUMI (GEORGIA)
Grzegorz Brożek (Katowice, Poland), Vakhtang Beridze, Tamar Bakhtadze, Sophio Beridze, Megi Khabazi, Jan Zejda

2597 Asthma program evaluation: Impact of tertiary Asthma Care Network on ED visits and hospitalizations
Diane Lougheed (Kingston (ON), Canada), Delanya Podgers, Marlo Whitehead, Shelly Wei, Genevieve Digby, Teresa To, Andrea Gershon

2598 Intraoperative ventilation management differs between genders - insights from a worldwide prospective cohort study
Sunny Nijbroek (Amsterdam, Netherlands), Ary Serpa Neto, Sabrine Hemmes, Marcus Schultz

2599 Discordant perception of global health between COPD outpatients and their physicians - real world data from the CLARA project
Andreas Horner (Kirchschlag bei Linz, Austria), Otto C Burghuber, Sylvia Hartl, Michael Studnicka, Monika Merkle, Horst Olschewski, Bernhard Kaiser, Eva Maria Wallner, Bernd Lampaecht

2600 Comparison of five major airflow limitation criteria to identify high-risk individuals with COPD in the general population
Shoaib Afzal (Herlev, Denmark), Yunus Çolak, Børge G. Nordestgaard, Jørgen Vestbo, Peter Lange

2601 Trends of asthma incidence over 80 years in Europe: preliminary results from the Ageing Lungs in European Cohorts (ALEC) study
Simone Accordini (Verona (VR), Italy), Pierpaolo Marchetti, Alessandro Marcon, Giancarlo Pesce, Lucia Calciano, Christer Janson, Deborah Jarvis, Nicole Probst-Hensch, Cecilia Svanes, Giuseppe Verlato, Cosetta Minelli

2602 European Trends in Chronic Obstructive Pulmonary Disease Mortality and Incidence rates 2001 to 2017
Dominic Marshall (Oxford (Oxfordshire), United Kingdom), Justin Salecicoli, Peter Dobson, Fan Chung

2603 The prevalence of COPD among lowlanders and highlanders in the Kyrgyz Republic.
Meerim Cholponbaeva (Bishkek, Kyrgyzstan), Abdirashit Maripov, Almaz Akunov, Nursultan Baktybek, Nadira Kushubakova, Samat Satybaldev, Kubat Muratali Uulu, Zhaynagul Kerimbekova, Gulira Kamal Kyzy, Akpay Sarybaev
Asthma and Ethnicity: Difference between the Galilee's Israeli Arabs and Jews in the Prevalence of Asthma Phenotypes – Eosinophilic Asthma and Asthma with Obesity
Anat Amital (Nesher, Israel), Moran Braitstein

Prevalence of COPD in Nepal: findings from a community-based study
Tara Ballav Adhikari (Kathmandu, Nepal), Dinesh Neupane, Arjun Karki, Martin Rune Hassan Hansen, Arne Drews, Brendan Cooper, Marieann Högman, Torben Sigsgaard, Per Kallestrup

Asthma in Finnish competitive cross-country skiers
Rikhard Mäki-Heikkilä (Tampere, Finland), Jussi Karjalainen, Jari Parkkari, Maarit Valtonen, Lauri Lehtimäki

Prevalence and factors associated with severe asthma among preschool children of rural Sri Lanka
Shashanka Indeevara Rajapakse Rajapakse Mudiyanselage (Kandy, Sri Lanka), Lakmali Amarasiri, Duminda Yasaratne, Janith Warnasekara, Suneth Agampodi

Laura Horsfall (London, United Kingdom), Greta Rait

Session 177 00:00 - 23:59
Pre-congress content

E-poster session: Advances in asthma treatment
Disease(s): Airway diseases
Method(s): Epidemiology Public health General respiratory patient care Pulmonary function testing Cell and molecular biology Endoscopy and interventional pulmonology
Chairs: Lies Lahousse (Ghent, Belgium)

Late Breaking Abstract - BENRALIZUMAB IN SEVERE ASTHMA: PRELIMINARY RESULTS FROM THE ITALIAN ANANKE STUDY
Girolamo Pelaia (Tirioolo (CZ), Italy), Maria D'Amato, Pierluigi Bracciale, Elena Altieri, Maria Filomena Caiaffa, Fausto De Michele, Micaela Romagnoli, Elena Ansaldov, Giorgio Walter Canonica

Late Breaking Abstract - Defining a severe asthma super-responder: findings from a Delphi process
John Upham (Brisbane (QLD), Australia), Chantal Le Lievre, David Jackson, Matthew Masoli, Michael Wechsler, David Price

Late Breaking Abstract - Pharmacological and clinical management of severe asthma in 9 countries: An international survey of clinicians.
Olina Efthymiadou (London, United Kingdom), Bregtje Kamphuis, Victoria Tzouna, Panos Kanavos

Real life benralizumab effect in patients with severe eosinophilic asthma after 16 weeks of observation
Elda Graziani (Fiumicino (RM), Italy), Arianna Sanna, Paola Scarano, Ilaria Menichini, Cecilia Cisternino, Roberto Flore, Corina Tomasa, Paolo Palange

Does use of hormonal contraceptives impact on exacerbations and control in reproductive-age women with asthma? A 17-year population-based cohort study
Syed Ahmar Shah (Edinburgh, United Kingdom), Holly Tibble, Rebecca Pillinger, Susannah Mclean, Dermot Ryan, Hilary Critchley, David Price, Catherine M Hawrylowicz, Colin R Simpson, Ireneous N Soyiri, Francis Appiagyei, Aziz Sheikh, Bright Nwaru

Inter-rater reliability of a novel algorithm to calculate Global Initiative for Asthma (GINA) treatment steps
Karen Hjerrild Andræsson (Næstved, Denmark), Trine Hjerrild Andræsson, Charlotte Suppli Ulrik, Kirsten Sidenius, Søren T Skou, Mike Thomas, Uffe Bodtger

DETERMINE THE OPTIMAL TIME TO ASSESS THE REVERSIBILITY OF THE LIMITATION TO AIRFLOW
Andrea Carolina Perez Figueru (Madrid, Spain), Diurbis Velasco, Raquel Morillo, Aurora Solier, Carlos Almonacid

Effect of ABPA treatment in severe asthma patients with acute and relapsed disease
Caterina Bucca (Torino (TO), Italy), Luisa Brussino, Irene Ridolfi, Francesca De Blasio, Stefania Nicola, Giovanni Rolla

Patient preferences for asthma management: a qualitative study
Christina Baggott (Wellington, New Zealand), Amy Chan, Sally Hurford, James Fingleton, Richard Beasley, Matire Harwood, Helen Reddel, William Levack

Influence of asthma treatment during pregnancy on fetal biometry
Maria Barca Hernando (Sevilla, Spain), Diana Ramos Apoyala, María Auxiliadora Romero Falcón, Juan Francisco Gallardo Medina, Francisco Javier Alvarez Gutiérrez
SNPs in asthma patients: gender difference in anti-leukotriene therapy
Giuseppe Spaziano (Napoli (NA), Italy), Renata Esposito, Davida Mirra, Elena Piegarì, Antonietta Rossi, Fiorentina Rovizetto, Luca Gallelli, Librario Berrino, Bruno D’Agostino

The impact of reflexology and homeopathy added to conventional asthma treatment on markers of airway inflammation - a randomised study
Ayfer Topcu (Aarhus, Denmark), Anders Løkke Ottesen, Leira Eriksen, Lars Peter Nielsen, Ronald Dahl

Bronchial thermoplasty in Thailand: 3-year experience in real-world practice
Vorawut Thanthitaweewat (Bangkok, Thailand), Nophol Leelayuwatananukul, Thitiwat Sriprasart

Study to evaluate clinical burden related with oral corticosteroids treatment of severe asthma in Spain (LEVANTE)
Xavier Munoz Gall (Barcelona, Spain), Javier Dominguez Ortega, Silvia Pascual Erquicia, Carlos Cabrera Lopez, Cecilia Jacqueline Martin Panadero, Gema Monteagudo Ruiz, Gustavo Resler

Prescribing trends of oral corticosteroids among young adults with active asthma
Inge Skov (Odense, Denmark), Daniel Pilsgaard Henriksen, Anton Pottegård, Hanne Madsen, Jesper Romhild Davidsen

Prevalence of alpha1-antitrypsin deficiency and its influence on lung function decline in patients with severe asthma
Gabriella Guarnieri (Padova (PD), Italy), Andrea Vianello, Beatrice Molena, Nicola Malacchini, Fulvia Chieco Bianchi, Ilaria Ferrari, Marco Caminati, Gianenrico Senna

Rates of major cardiovascular events in severe asthma: US real-world and clinical trial populations
Parul Dayal (South San Francisco, United States of America), Dorothy Cheung, Carlos Iribarren, Michael Rothenberg, Yingjie Ding, C. Victor Spain

The profile of poor ICS adherence in uncontrolled moderate to severe asthma.
Laurien Keulers (LEEUWARDEN, Netherlands), Kim De Jong, Anneke Ten Brinke, Akke-Nynke Van Der Meer

Effectiveness of Nebulized Budesonide in Iranian Patients with Asthma Attack
Atefeh Abedini (Tehran, Islamic Republic of Iran), Arda Kiani, Fatemeh Razavi, Mehrdad Farahani, Negar Bandegani, Javad Valizadeh, Habib Emami

Systematic review of the comparison between adrenaline (epinephrine) and selective ß2-agonist in the setting of adults or children with acute asthma
James Fingleton (Wellington, New Zealand), Christina Baggott, Jo Hardy, Jenny Sparks, Donah Sabbagh, Richard Beasley, Mark Weatherall

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Session 178

Pre-congress content

E-poster session: Inhaled corticosteroids and bronchodilator studies in asthma
Disease(s) : Airway diseases, Respiratory critical care
Method(s) : General respiratory patient care, Epidemiology, Public health, Respiratory intensive care, Pulmonary function testing
Chairs : Celeste Michala Porsbjerg (Copenhagen, Denmark), Imran Satia (Hamilton (ON), Canada)

Late Breaking Abstract - Short-acting ß2-agonist use in asthma in Western societies
Jennifer Quint (Wimbledon, United Kingdom), Sofie Arnetorp, Christer Janson, Silvia Boarino, Jan Willem Kocks, Ileen Gilbert, Maciej Kupczyk, Javier Nuevo, Njira Lucia Lugogo, Erika Penz, Santiago Quirce, Chantal Raherison-Semjen, Ralf Van Der Valk

Late Breaking Abstract - The humanistic burden of asthma patients uncontrolled on ICS-LABA: a systematic literature review
Alexandrosz Czira (Brentford, United Kingdom), Amber Martin, Monica Turner, Wilhelmine Meeraus, Helen Birch, Shiyuan Zhang

CAPTAIN: Effects of age on response to triple therapy in patients with inadequately controlled asthma on ICS/LABA
Louis-Philippe Boulet (Québec (QC), Canada), Laurie Lee, Huib Kerstjens, Alberto Papi, Agne Zarankaite, Ian D Padvord, Zelie Bailes, Guy Brusselle, Neil Barnes, Nicola A Hanania, Steven Pascoe, John Oppenheimer, Emilio Pizzichini, Andrew Fowler

As needed therapies in mild to severe asthma: a systematic review and network meta-analysis
Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Josuel Ora, Mario Cazzola, Luigi Colletta

Overuse of short-acting beta-agonists (SABA) and risk factors among patients with asthma
Heinrich Worth (Cadolzburg, Germany), Carl-Peter Crièe, Claus Vogelmeier, Peter Kardos, Eva-Maria Becker, Karel Kostev, Ingo Mokros, Andrea Schneider
Lower ICS dose effect on symptoms and rescue medication use of indacaterol/glycopyrronium/mometasone (IND/GLY/MF) medium-dose vs salmeterol/fluticasone (Sal/Flu) high-dose plus tiotropium (Tio): ARGON study

Christian Gessner (Leipzig, Germany), Oliver Kornmann, Jorge Maspero, Richard Van Zyl-Smit, Matthias Krüll, Agustín Sojo, Anna Salina, Pritam Gupta, Lorena García Conde

Adherence to FDC Budesonide/Formoterol treatment and lung function of Greek asthmatic patients-COMPLETE study

Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Polyanthi Papanastasiou, Aikaterni Athanassiou, Alexandros Ginis

Long-term adherence to inhaled corticosteroids and asthma control in adult-onset asthma

Iida Vähätalo (Tampere, Finland), Hannu Kankaanranta, Leena Esteri Tuomisto, Onni Niemelä, Lauri Lehtimäki, Pinja Ilmarinen

Effect of triple therapy with extra-fine BDP/FF/GB pMDI during seasonal peaks of asthma exacerbations. A post-hoc analysis of the TRIMARAN and TRIGGER studies

Alberto Papi (Ferrara, Italy), Dave Singh, Christian J Virchow, Maxim Kots, Andrea Vele, George Georges, Giorgio W. Canonica

Predictors of excessive short-acting beta2-agonist use and asthma exacerbations: a retrospective analysis of a Polish prescription database.

Maciej Kupczyk (Lodz, Poland), Maciej Kupczyk, Wojciech Barg, Grażyna Bochenek, Grzegorz Brożek, Dorota Brzostek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Rafal Dobek, Radosław Gawlik, Aleksandra Kucharzycy, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Edyta Zagrajek, Marek L Kowalski

Adherence to 6-month FDC Budesonide/Formoterol treatment and Quality of Life in Greek asthmatic patients-COMPLETE study

Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Aikaterni Papataxiarchou, Aikaterni Athanassiou, Alexandros Ginis

Prescription behaviour of short-acting β2-agonists in Switzerland

Claudio Schuoler (Zug, Switzerland), Claudia Steurer-Stey, Elke Ullmer, Romeo Providoli, Vitaly Chicherov, Maria Karobeynikova, Stefan Wetzel, Gunther Pendl

The effect of inhaled corticosteroids on airway hyperresponsiveness to mannitol in patients with Type 2 low asthma

Morten Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Boroumand, Carl-Magnus Claussen, Jonas S Erjefält, Celeste Porsbjerg

Change in asthma management recommendations is associated with reduction of reliever drugs in the real-world setting: a longitudinal retrospective claims data analysis in Burgenland

Marko Todorovic (Sokobanja, Republic of Serbia), Berthold Reichard, Michael Wolzt, Georg Duftschmid, Daniel Doberer

Efficacy and safety of as-needed corticosteroid plus fast or short-acting beta-agonists monotherapy in patients with mild asthma: a meta-analysis of randomised controlled trials.

Carla Emille Barbon (MANILA, Philippines), Lenora Fernandez

(in)Appropriate LAMA Prescribing in Asthma patients: a Cohort Analysis (the ALPACA study)

Esmé J. Baan (Rotterdam, Netherlands), Christina E. Hoeve, Maria A. J. De Ridder, Leis Demeiren, Lies Lahousse, Katia M. C. Verhamme, Guy G. Brusselle

Adhesive to inhaled treatment in patients with asthma and COPD

Jacinto Hernandez Borge (Badajoz, Spain), Jacinto Hernandez Borge, Maria Teresa Gómez Vizcaino, Sebastian Hernández Gómez, Amparo Sanz Cabrera, María José Antonia Rodríguez

Pre-congress content  Session 179  00:00 - 23:59

E-poster session: Clinical and functional evaluation of asthmatics

Disease(s): Airway diseases

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

Chairs: Florence Schleich (Liège, Belgium), Deimante Hoppenot (Kaunas, Lithuania)

Assessment of asthma morbidity by US patients, specialists, Asthma Control Test™, and Asthma Impairment and Risk Questionnaire™

Kevin Murphy (London, United Kingdom), Robert S. Zeiger, David A. Beuther, Joan Reibman, Robert A. Wise, William McCann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin S. Coyne, Melissa Ross, Maureen George, Bradley Chipp
2647 Spirometry vs Impulse oscillometry in evaluation of children with asthma.
Varun Garg (New Delhi, India), Ankit Parakh

2648 Bronchodilation test: Salbutamol or Ipratropium Bromide?
Liliana Raposo (Queijas, Portugal), Raquel Barros, Ana Sofia Oliveira, João Valença, Cristina Bárbara

2649 Analysis of pollen composition and connection with sensitization of residents of Tashkent city
Elnara Ismailova (Tashkent, Uzbekistan), Stefania Katsamaki, Nigora Magbulova, Yuliya Levickaya, Gulnara Djambeckova, Mokhigul Ismatova, Xonsuluv Sokhibnazarova, Mirzakamol Ayubov, Victoriya Garib

2650 Predictors of asthma non control
Houda Snène (Tunis, Tunisia), Hana Blibece, Meriem Ben Rhouma, Asma Zafouri, Donia Belkhir, Line Kaabi, Nadia Mehri, Nozha Ben Salah, Bechir Louzir

2651 The correlation of Fractional Exhaled Nitric Oxide (FeNO) level with the absolute Eosinophil count and level of Bronchial Asthma control: A prospective cross sectional study
Jamaica Ross (Quezon City, Philippines)

2652 Seasonal fluctuations in lung function and asthma control in patients with airway osmotic hyperresponsiveness
Evgeniya A. Afanaseva (Blagoveschensk (Amur Oblast), Russian Federation), Anna G. Prikhodko, Juliy M. Perelman

2653 Distribution of ACO among the Obstructive Airway Diseases (OADs) - 9 month study.
Rajesh Agrawal (Bareilly, India), Rajat Agarwal, Sonia Goel

2654 Determine the relationship between fraction exhaled nitric oxide (FeNO) and mannitol challenge test in the diagnosis of suspected asthma patients.
Andrea Carolina Perez Figuera (Madrid, Spain), Carlos Almonacid Sanchez, Diurbis Rodriguez Calle Velasco Alvarez, Carmen Rodriguez Calle, Aurora Solier Lopez, Alfonso Muriel Garcia, Raquel Morillo Guerrero

2655 Socioeconomic Status and Cleaning: Major Factors Affecting Asthma Control
Umran Ozden Sertcelik (Ankara, Turkey), Ebru Celebioglu, Gul Karakaya, Ahmet Ugur Demir, Ali Fuat Kalyoncu

2656 Influence of asthma on hemodynamic parameters according to volume compression oscillimetry.
Anton Shakhanov (Ryazan, Russian Federation), Oleg Uryasev, Irina Nikitina

2657 Predictors of low-level disease-specific knowledge in patients with chronic obstructive pulmonary disease
Sang Hee Lee (Gumun, Republic of Korea), Ki Uk Kim, Yun Seong Kim, Hye-Kyung Park, Min Ki Lee

2658 Sensitization to Salsola kali pollen depends on the age of the patients
Nigora Magbulova (Uzbekistan), Stefania Katsamaki, Elnara Ismailova, Mokhigul Ismatova, Gulnara Djambeckova, Yuliya Levitskaya, Victoriya Garib

2659 Exploring factors related to physical inactivity in asthma and COPD overlap (ACO)
Tsunahiko Hirano (Ube, Japan), Keiko Doi, Keita Murakawa, Ayumi Chikamoto, Yuichi Ohteru, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuma Matsunaga

2660 Characterization of asthma and COPD overlap: a single center study
Davide Piloni (Pavia, Italy), Amelia Grosso, Erica Gini, Federica Albicini, Alice Maria Balderacchi, Rita Di Domenico, Giulia Accordino, Manuela Coretti, Laura Saracino, Vanessa Ronzoni, Angelo Guido Corsico

2661 EVALUATION OF SYSTEMATIC INFLAMMATION, OXIDATIVE STRESS AND ENDOTHELIAL DISFUNCTION IN COPD, ASTHMATIC AND ACO PATIENTS WITH OBESITY.
Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Oksana Prituliak, Iryna Nemish

2662 Fixed obstruction in asthma patients - does it that matter?
Temenuzhka Ignatova-Danova (Rousse, Bulgaria), Ilia Krachunov, Pavlina Glogovska, Plamen Pavlov, Elena Borisova, Tsanya Popova, Nikolay Kyuchukov, Yavor Ivanov

2663 Relationship of nutritional status and spirometric parameters in children with bronchial asthma

Pre-congress content
Session 180
00:00 - 23:59

E-poster session: Personalised treatment of obstructive diseases

Disease(s): Airway diseases, Respiratory critical care

Method(s): General respiratory patient care, Respiratory intensive care, Cell and molecular biology, Pulmonary function testing, Endoscopy and interventional pulmonary medicine, Pulmonary rehabilitation, Public health, Palliative care, Epidemiology, Physiology
Late Breaking Abstract - Recurrent Neural Networks and environmental data for COPD exacerbation prediction
Cristobal Esteban Gonzalez (Bilbao (Bizkaia), Spain), Francisco Javier Moraza, Pedro Garcia, Amaia Aramburu, Fernando Sancho, Leyre Chasco, José Antonio Gutiérrez, Francisco José Conde, Sergio Resino

Late Breaking Abstract - Reimbursement for asthma care is a universal barrier to achieving asthma symptom control: the SABINA III study
Eric D. Bateman (Cape Town, South Africa), David B. Price, Hao-Chien Wang, Adel Khattab, Patricia Schonfeldt, Angela Catanzariti, Ralf J.P. Van Der Valk, Maarten J.H.I. Beekman

Telehealth vs. standard care in COPD – a randomized controlled trial
Frank Rassouli (Speicher, Switzerland), Florent Baty, Malcolm Kohler, Daiana Stolz, Robert Thurnheer, Thomas Brack, Christian Kähler, Sandra Widmer, Ursina Tsichiren, Noriane A Sievi, Michael Tamm, Martin H Brutsche

Regulatory T cells and L-selectin in severe asthmatic patients treated with mepolizumab.
Laura Bergantini (Siena, Italy), Miriana D'Alessandro, Paolo Camelli, Alfonso Carleo, Piersante Sestini, Elena Bargagli

Telehealth vs. standard care in COPD – a randomized controlled trial
Frank Rassouli (Speicher, Switzerland), Florent Baty, Malcolm Kohler, Daiana Stolz, Robert Thurnheer, Thomas Brack, Christian Kähler, Sandra Widmer, Ursina Tsichiren, Noriane A Sievi, Michael Tamm, Martin H Brutsche

Regulatory T cells and L-selectin in severe asthmatic patients treated with mepolizumab.
Laura Bergantini (Siena, Italy), Miriana D'Alessandro, Paolo Camelli, Alfonso Carleo, Piersante Sestini, Elena Bargagli

Identifying subgroups of asthma patients for potential intervention using electronic medication monitors (EMM)
Rahul Gondalia (San Francisco, United States of America), Leanne Kaye, David Van Sickle, David Stempel, Meredith Barrett

Effect of increasing levels of pressure support (PS) with NIV on diaphragmatic function assessed using ultrasound
Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari, Uma Devaraj

Effectiveness of community-based interventions following multi disciplinary team discussion in COPD patients
Cecilia Rafique (Glasgow, United Kingdom), Stacey Smillie, Geesh Jayasekera, Hannah Bayes, David Anderson

Clinical characteristics and disease control of US asthma patients treated in specialty clinics
Bradley Elliott Chipp (Sacramento, United States of America), Robert S. Zeiger, David A. Beuther, Joan Reibman, Robert A. Wise, William Mccann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Gale Harding, Katelyn Cutts, George, Kevin Murphy

Educational Intervention to increase adherence to inhaler therapy - INSPIRO Project
Ruxandra Ulmeanu (Bucuresti (Sector 5), Romania), Ramona Elena Nedelcu, Roxana Maria Nemes, Florin Dumitru Mihaltan

Effectiveness of a panel of sputum markers in smokers with and without COPD to detect pulmonary progression towards functional impairment
Gregorino Paone (Roma (RM), Italy), Giulia De Rose, Ilaria Piergentili, Daniela Pellegrino, Jacopo Di Lorenzo, Ilaria Menichini, Ilaria Cuccaro, Gilda Giannunzio, Diana Giannarelli, Paolo Palange

Opioid use, perhaps a harbinger of worsening COPD?
Juanita Lestari (Singapore, Singapore), Huiying Xu, Han Yee Neo, Ser Hon Puah

Long-term omalizumab treatment - do drug concentration levels count?
Johannes A Kroes (Leeuwarden, Netherlands), Sander W Zielhuis, Akke-Nynke Van Der Meer, Kim De Jong, Eric N Van Roon, Anneke Ten Brinke

Proportion of complete responders after one year of treatment with biologics for severe asthma - Results from the nationwide Danish Severe Asthma Register
Susanne Hansen (Frederiksborg, Denmark), Susanne Hansen, Ole Hilberg, Charlotte Ulrik, Marianne Sondergaard, Anna Von Bülow, Anders Christiansen, Linda Rasmussen, Claus Johnsen, Johannes Schmid, Anne Sofie Bjerrum, Alexandra Wimmer Aune, Karin Dahl Assing, Kirsten B Rasmussen, Niels Steen Krog, Celeste Porsbjerg

The impact of maintenance oral corticosteroids (OCS) on disease burden and type-2 inflammatory signal in the Wessex Severe Asthma Cohort (WSAC)
Laura Wiffen (Portsmouth, United Kingdom), Thomas Brown, Lauren Fox, Thomas Jones, Kerry Gove, Claire Barber, Scott Elliott, Hitashra Rupani, Peter Howarth, Anoop Chauhan

Predictive factors of mechanical ventilation need after NIV during acute exacerbations of COPD
Ahmed Ben Saad (Monastir, Tunisia), Samah Joobeur, Asma Migaou, Nesrine Fahem, Saousen Cheikh Mhamed, Naceur Rouatbi

Does the Outpatient Pulmonary Rehabilitation Program Affect Mortality in Patients with COPD?
Yelda Varol (Izmir, Turkey), Hulya Sahin, Gunseli Balci, Filiz Guldaoval, Ozgur Batum, Gulru Polat, Ali Kadri Cirak
2681  
Gerd questionnaire as a tool for diagnosing GERD in patients with chronic obstructive pulmonary disease.
Alexandra Balitskya (Barnaul, Russian Federation), Elena Klester, Inna Weitzman, Karolina Klester

Pre-congress content
Session 181 00:00 - 23:59

E-poster session: Diagnosis and management of airways disease in primary care

Disease(s):  
Airway diseases  Sleep and breathing disorders

Method(s):  
General respiratory patient care  Pulmonary function testing  Public health  Epidemiology  Palliative care

Chairs:  
Ee Ming Khoo (Kuala Lumpur, Malaysia), Luke Daines (Edinburgh, Edinburgh, United Kingdom)

2682  
Food allergy logogram to facilitate the diagnosis of food allergy in primary care
Bertine Flokstra-De Blok (Groningen, Netherlands), Tina Van Der Velde, Liz Angier, Evangeline Clark, Pascal Demoly, Clara Gaudin, Radek Gawlik, Myriam Mamodaly, Luciana Tanno, Kerstin Romberg, Janwillem Kocks, Dermot Ryan

2683  
EAACI Task Force Logograms: Asthma logogram to facilitate the diagnosis of asthma in primary care
Janwillem W. H. Kocks (Groningen, Netherlands), Kerstin Romberg, Bertine Flokstra-De Blok, Liz Angier, Evangeline Clark, Pascal Demoly, Clara Gaudin, Radek Gawlik, Myriam Mamodaly, Luciana Tanno, Tina Van Der Velde, Dermot Ryan

2684  
The sensitivity and specificity of specific IgE in diagnosing asthma
Heinz Andreinga (Groningen, Netherlands), Janwillem Kocks, Ellen Van Heijst, Renaud Louis, Itixo Ojanguren Arranz, Roland Riemsma, Dermot Ryan, Omar Usmani, Bertine Flokstra-De Blok

2685  
Defining high probability of an asthma diagnosis in primary care: results from an expert consensus workshop
Luke Daines (Edinburgh, Edinburgh, United Kingdom), Steff Lewis, Antonius Schneider, Aziz Sheikh, Hilary Pinnock

2686  
ECG Abnormalities in Acute Exacerbation of Bronchiectasis
FATIMA ALHAMED ALDUIHI (ALEPPO, Syrian Arab Republic)

2687  
Patients with COPD prescribed inhaled corticosteroids in primary care: Time for re-assessment based on exacerbation rate and blood eosinophils?
Osman Savran (Hvidovre, Denmark), Nina Godtfredsen, Torben Sørensen, Christian Jensen, Charlotte Suppli Ulrik

2688  
Real world use of opioids in COPD patients
Katia Mc Verhamme (Rotterdam, Netherlands), Marie Clyncke, Lies Lahousse, Esme Baan, Guy Brusselle

2689  
FeNO testing for asthma diagnosis in primary care
Jayne Longstaff (Portsmouth, Hampshire, United Kingdom), Milan Chauhan, Ruth DeVos, Tom Brown, Mark Mottershaw, Hitasha Rupani, Amono Chauhan

2690  
Targetted screening of chronic obstructive pulmonary disease in french primary care: the DISCO study
Emile Andres (Remes, France), Bruno Laviolle, Aurelie Veilsinger, Fabienne Pele, Stephane Jouneau, Anthony Chapron

2691  
Primary care spirometry with a new mobile phone-linked spirometer - a feasibility study.
Piotr Jankowski (Warszawa, Poland), Katarzyna Mycroft, Piotr Korczyński, Łukasz Koltoński, Mateusz Soliński, Rafal Krenke, Katarzyna Górska

2692  
Prediction of lung hyperinflation by forced spirometry: Results from COSYCONET
Peter Alter (Marburg, Germany), Jan Orszag, Christina Kellner, Kathrin Kahnert, Tim Speicher, Henrik Watz, Robert Bals, Tobias Welte, Claus Vogelmeier, Rudolf Jörres

2693  
Handling of inhalers by COPD patients in actual clinical practice
Hadeer S. Harb (Bini-Suef, Egypt), Nabil Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim

2694  
The impact of device education on patients with chronic obstructive pulmonary disease using different inhalers
CHANG SHUHUA (Yunlin, Taiwan), Ying-Ju Lin, Yen-Fu Chen

2695  
Predictors for treatment changes in COPD - A Swiss Cohort Study
Lea Kleinsorge (Basel, Switzerland), Giorgia Lüthi-Corridori, Nebal Abu Hussein, Pierre O. Bridevaux, Cordula Cadus, Prashant N. Chhajed, Thomas Geiser, Peter Grendelmeier, Ladina Joos Zellweger, Malcom Kohler, Sabrina Maier, David Miedinger, Michael Tamnt, Robert Thumheer, Anne Tschacher, Pascal Uwyler, Jörg D. Leuppi

2696  
An audit of salbutamol use before children are admitted to hospital with acute asthma
Stephanie Cheetham (Liverpool, United Kingdom), Connor Thompson, Lynsey Brown, Ian Sinha

2697  
Validity of the Nijmegen questionnaire for screening hyperventilation syndrome in primary care
Nathalie Pauwen (Bruxelles, Belgium), Thierry Colot, Florance Boucharessas, Roger Sergysels, Jeanne Bertuit, Vincent Ninane, Vitalie Faoro
Diagnosis of persistent cough in patients with normal chest X-ray at ACOCU
Ho Lam Nguyen (Hồ Chí Minh, Vietnam), Duy To Truong

Understanding information needs of patients with asthma in the United Kingdom
Kirstie McClatchey (Edinburgh, United Kingdom), Tracy Jackson

Management of asthma exacerbations in the practice of general physicians (GP)
Anna V Demchuk (Vinnytsia, Ukraine), Tetyana V Konstantynovych, Yuriy M Mostovoy

Lack of knowledge regarding nasal inhaler technique in allergic rhinitis: results from a mixed methods study
Esther I. Metting (Groningen, Netherlands), Marije Peters, Corine Rollema, Job F.M. Van Boven, Robbert Sanderman

Pre congress content

Session 182
00:00 - 23:59

E-poster session: Intercellular communication in tissue remodelling of chronic lung diseases

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology

Method(s): Cell and molecular biology, Respiratory intensive care, General respiratory patient care, Pulmonary function testing

Imaging

Chairs: Tania Maes (Ghent, Belgium), Aurelie Fabre (Dublin 4, Ireland)

Association between microbiome and plasma proteome profile in COPD
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Thong Cao, Omer Elneima, Hamish Mcauley, Vijay Mistry, Koirebi Haldar, Michael Barer, Leong Ng, Christopher Brightling

Mouse tracheal epithelial cells (mTECs) for the study of influenza A infection
Fawaz ALJuhani (Sheffield, United Kingdom), Priyanka Anujan, Lynne Bingle, Colin Bingle

Comparison of the effectiveness of azithromycin and budesonide versus theophylline and budesonide in the suppression of pro-inflammatory cytokines in patients with COPD
Aliaksei Kadushkin (Minsk, Belarus), Anatoli Tahanovich, Tatsiana Kolesnikova, Elena Hodosovskaya

Evaluation of mitochondrial dysfunction of mononuclear leukocytes of smokers and ex-smokers in COPD exacerbation
Eduard Belskikh, Sabina Akhmedova, Natalia Popko, Oleg Uryasev, Valentia Zvyagina, Olga Zhurina, Valery Demikhov

Lung tissue multi-omics integration in copd
Maria Rosa Faner Canet (Barcelona, Spain), Nuria Olvera, Guillaume Noell, Sandra Casas-Recasens, Alejandra López-Giraldo, Angela Guirao, Alvar Agusti

THE GENE SIGNATURE OF LUNGS FROM GUINEA PIGS EXPOSED TO CIGARETTE SMOKE OVERLAPS WITH THAT OF HUMAN WITH COPD
Adelaida Bosacoma Armora (Barcelona, Spain), Daniel Aguilar, Tanja Paul, Isabel Blanco, Olga Tura-Ceide, Joan Albert Barberà, Victor I. Peinado

Copy Number Variation (CNV) in Chronic Obstructive Pulmonary Disease (COPD) with and without ongoing smoking
Geetanjali Bade (New Delhi (Delhi), India), Anjali Trivedi, Anjana Talwar, Meghashree Sampath, Debabrata Ghosh, Randeep Guleria

Extracellular vesicle-derived muscle-specific miRNAs for the characterization of group B COPD patients
Tommaso Neri (Pisa (PI), Italy), Sara Carpi, Beatrice Polini, Dario Nieri, Valentina Scalise, Chiara Sanguinetti, Ilaria Passalacqua, Roberto Pedrinelli, Pierlugi Paggiaro, Paola Nieri, Alessandro Celi

Prediction of human orthologs to the Drosophila's COPD-associated genes.
Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulisian, Sotirios Zarogiannis

Prediction of human orthologs to the Drosophila's COPD-associated genes.
Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulisian, Sotirios Zarogiannis

Biomarkers to predict FEV1 decline in smokers and early-onset COPD.
Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José María Marin Trigo, Ciro Casanova Macario, Borja García-Cosío Piqueras, Isabel Mir Vilàdrich, Ingrid Solanes Garcia, José Luis Gómez Áriza, José Luis López Campos, Luis Seijo Maceiras, Nuria Feu Collado, Carlos Cabrera López, Carlos Amado Diago, Amparo Romero Plaza, Juan Pablo De Torres Tajes, Luis Alejandro Padrón Frayses, Eduardo Márquez Martín, Margarita Marin Royo, Eva Balcels Vilarnau, Antonia Llunell Casanovas, Cristina Martinez Gonzalez, Juan Bautista Galdiz Iturri, Celia Lacácel Bautista, Sandra Garcia Garrido, Germán Peces-Barba

LSM - 2020 - L longitudinal effect of smoking cessation on transcriptomics and epigenetics in the airways of COP D patients and asymptomatic controls
Alen Faiz (Ultimo (NSW), Australia)
Versatile workflow for storage, characterization and cell-type resolved transcriptional and epigenetic profiles of human lung samples (LSC-2020).
Renata Jurkowska (Cardiff (Wales), United Kingdom), Maria Llamazares, Elisa Espinet, Vedrana Mijosek, Uwe Schwartz, Sebastian Waszak, Pavlo Lustik, Raluca Tamas, Mandy Richter, Annika Behrendt, Stephanie Pohl, Naja Benz, Thomas Muley, Arne Warth, Claus Peter Heuβel, Felix Heaeth, Tinne Mertens, Harry Karmouty-Quintana, Ina Koch, Vladimir Benes, Jan Korbel, Andreas Trumpp, David Wyatt, Heiko Stahl, Christoph Plass

MicroRNA-26a expression in exhaled breath condensate correlates with pulmonary exacerbation in cystic fibrosis
Zuzanna Stachowiak (Poznan, Poland), Irena Wojsyk-Banaszak, Katarzyna Jóńczyk-Potoczna, Joanna Gozdzik-Spychańska, Kamila Sobczak, Beata Narożna, Anna Breborowicz, Aleksandra Szczepankiewicz

Glucocorticoid signaling genes are altered in asthma subgroups - A potential role for mRNA-miRNA interactions
Julie Weidner (Göteborg, Sweden), Carina Malmhäll, Aidan Barrett, Huda Hasan, Emma Boberg, Linda Ekerljung, Madeleine Rådängör

RNA sequencing in bronchial biopsies of wheezing infants developing asthma at school age reveals epithelial dysfunction
Elin Kersten (Haren GN, Netherlands), Kristiina Malmström, Cornelis Vermeulen, Cheng-Jian Xu, Maarten Van Den Berge, Wim Timens, Martijn Nawijn, Mika Mäkelä, Gerard Koppelman

Osteopontin and interleukin-6 as biomarkers of interstitial lung disease
SARA REMUZGO MARTINEZ (SANTANDER, Spain), David Iturbe Fernández, Victor M. Mora Cuesta, Fernando Genre, Verónica Pulito-Cueto, Sonia M Fernández Rozas, Leticia Lera-Gómez, Belén Atienza-Mateo, Raquel López-Mejías, Miguel A González-Gay, José M Cifrián

Lung function decline in patients with alpha1-antitripisin heterozygosis: preliminary data
Paolo Gaboardi (Branzi, Italy), Elisa Franceschi, Andrea Cristiano, Andrea Airoldi, Maurizio Rizzi, Dejan Radovanovic, Pierachielle Santos

Osteopontin and interleukin-6 as biomarkers of interstitial lung disease
SARA REMUZGO MARTINEZ (SANTANDER, Spain), David Iturbe Fernández, Victor M. Mora Cuesta, Fernando Genre, Verónica Pulito-Cueto, Sonia M Fernández Rozas, Leticia Lera-Gómez, Belén Atienza-Mateo, Raquel López-Mejías, Miguel A González-Gay, José M Cifrián

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Prospective evaluation of cardio-metabolic comorbidities in a cohort of patients with non-cystic fibrosis bronchiectasis.
Valentine Bonnefoy (Paris, France), Laurent Boyer, Etienne Audureau, Laurence Bassinet, Sonia Zebachi, Benoit Douvry, Isabelle Monnet, Gilles Mangiapane, Amel Boudjemaa, Caroline Touboul, Laura Ernande, Bruno Housset, Bernard Maitre, Frederic Schlemmer

Palliative care on non-oncologic patients in a pulmonology ward - a three year review
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloisa Silva, Teresa Shiang, Manuela Vanzeller, Ana Paula Costa, Márcia Oliveira, Ricardo Fernandes, Carla Ribeiro
**Disease(s):** Respiratory critical care, Airway diseases, Pulmonary vascular diseases

**Method(s):** Respiratory intensive care, General respiratory patient care, Pulmonary function testing, Endoscopy and interventional pulmonology, Cell and molecular biology, Physiology

**Chairs:** Bernd Schönhofer (Laatzen, Germany), Lieuwe D.J. Bos (Amsterdam, Netherlands)

### 2741 Late Breaking Abstract - Enhanced expression of IL-1ß in later stage of influenza A virus infection is independent of NLRP3 in vitro
Yunfeng Shi (GuangZhou, China), Yunfeng Shi, Xiaohai Shi, Jingjing Liang, Jinmei Luo, Junhui Ba, Benquan Wu

### 2742 Late Breaking Abstract - Non-interventional monitoring of expiratory flow limitation during experimental mechanical ventilation
Giorgos Marinakis, Michael Paraschos, Maria Patrani, Theodoros Tsoutsouras, Athanasia Kotrotsou, Miltos Vassiliou

### 2743 Uni- and bilateral diaphragm paralysis: an animal model
Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Peter Frykholm

### 2744 The relationship between AQ3 inferior vena cava diameter measured by bedside ultrasonography and central venous pressure value
Mohamed Fawzy Adam (Assiut, Egypt), Gamal Rabea, Safaa Mokhtar

### 2745 Prognostic value of plasma level of high mobility group box-1 in sepsis and septic shock
Hongseok Yoo (Seoul, Republic of Korea), Jin Young Lee, June Sun Park, Chaiyoung Lee, Kyeongman Jeon

### 2746 Diagnostic utility of serum KL-6 levels in acute respiratory failure with bilateral pulmonary infiltrates
Megumu Osaki (Kobe, Japan), Ryo Tachikawa, Yusuke Shinna, Yuri Shimada, Atsushi Matsunashi, Kazutaka Hosoya, Ryosuke Hirabayashi, Yuki Sato, Kazuma Nagata, Atsushi Nakagawa, Keisuke Tomii

### 2747 In-Vitro evaluation of the performance of some large volume spacer versus T-adapters
Haitham Saeed (fayoum, Egypt), Elnady M.A, Hoda Rabea, Salah M.Seif, Mohamed E. A. Abdelrahim

### 2748 Inhibition of nitric oxide production during inflammation associated with hypoxemia reduces the survival after apnea in rats.
Elizaveta Baranova (St. Petersburg, Russian Federation)

### 2749 NADPH oxidase 4 signaling in a ventilator-induced lung injury mice model
Mi Hwa Shin (Seoul, Republic of Korea), Ji Soo Choi, Eun Hye Lee, Ju Hye Shin, Sang Hoon Lee, Moo Suk Park

### 2750 Serum bilirubin/fetuin-A ratio in critically ill septic patients: a prospective study
Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, George Skyllas, Panagiotis Simitsis, Gerasimos Socrates Christodoulatos, Evangelia Kandri, George Antonakos, Apostolos Armanagidis, Maria Dalamaga

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### 2753 Alterations in serum lipid profile in critically ill septic patients: a prospective study
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### 2754 Lung-protective mechanical ventilation for 50 hours activates hippocampal astrocytes
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Marlena Ornowska, Karl Fernandez, Michelle Nicholas, Steve Reynolds

### 2755 Novel swine ARDS model induced by Pseudomonas aeruginosa pneumonia and VILI
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### 2756 Relative performance of nebulizers used in acute care wards
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### 2757 Effect of I:E ratio on the respirable delivered dose from nebulizers
Lois Slator (Southampton, United Kingdom), Adam Metcalf, Dirk Von Hollen, Steven P. Cowley, Lucy E. A. Hardaker

### 2758 Nonsteroid anti-inflammatory agents depress inflammation-related respiratory disorders and hypoxia-induced mortality. Experimental model.
Zhanna Donina (St. Petersburg, Russian Federation)
# Session 186: E-poster session: Cystic fibrosis

**Eras: General respiratory patient care, Epidemiology, Public health, Physiology, Cell and molecular biology, Imaging, Surgery, Respiratory intensive care, Pulmonary function testing**

**Chairs:** Nicholas Simmonds (London, United Kingdom), Stojka Fustik (Skopje, North Macedonia)

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Expression and function of murine WFDC2 in the respiratory tract.
Lynne Bingle (Sheffield (South Yorkshire), United Kingdom), Hannah Armes, Colin Bingle

Epidemiology and factors associated with overweight in adults with cystic fibrosis: an Italian multicenter experience.
Andrea Gramegna (Milano (MI), Italy), Stefano Aliberti, Martina Contarini, Daniela Savi, Fabiana Ciciriello, Fabio Maio, Vincenzina Lucidi, Paolo Palange, Francesco Blasi

Pre-congress content
Session 187 00:00 - 23:59
E-poster session: Transthoracic and endobronchial ultrasound
Disease(s): Thoracic oncology, Respiratory critical care, Interstitial lung diseases, Airway diseases
Method(s): Imaging, Endoscopy and interventional pulmonology, Respiratory intensive care, Surgery, General respiratory patient care, Pulmonary rehabilitation, Palliative care
Chairs: Rachelle Asciak (Attard, Malta), Niels Jacobsen (Odense M, Denmark)

Late Breaking Abstract - Lung ultrasound for severity assessment and outcome prediction of COVID-19 patients.
Pere Trias Sabria (Barcelona, Spain), Maria Molina-Molina, Samantha Aso-González, Marta Diez-Ferrer, Joan Sabater-Riera, Jordi Dorca-Sargatal, Salud Santos-Pérez, Guillermo Suárez-Cuartin

The lung sonography in the evaluation of a new airway clearance device
Angelo Longoni (Mariano Comense (CO), Italy), Paolo Pozzi, Antonio Paddeu

The use of lung ultrasound in the postoperative period following cardiac surgery
Foteini Chatzivasiloglou (Nikaia (Piraeus), Greece), Stavros Dimopoulos, Vasiliki Raidou, Konstantina Sakki, Dimitrios Elaiopoulos, Despoina Markantonaki, Kirillos Papadopoulos, Ioannis Kriaras, Aikaterini Marathia, Serapheim Nanas, Andreas Karabinis

Use of safety checklists for pleural procedures by Respiratory trainees
Qaiser Abdullah (Stoke on trent, United Kingdom), Muhammad Arif Khalil, Maryam Ahmed, Atul Gulati

The role of Transthoracic Ultrasound in the study of interstitial lung disease: HRCT versus ultrasound pattern
Federica Maci (Foggia, Italy), Carla Maria Irene Quarato, Donato Lacedonia, Giulia Scioscia, Pasquale Tondo, Angelamaria Giardinelli, Ernesto Giuffreda, Maria Pia Foschino Barbaro, Marco Sperandeo

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Ana Belén Llanos-González (SANTA CRUZ DE TENERIFE, Spain), Natalia Arteaga-Marrero, Enrique Villa, Marta Elena Gómez Gil, Ana Martin Medina, Orlando Acosta Fernández, Nuria Mañes Bonet, Juan Bautista Ruiz-Alzola, Javier González-Fernández

Transthoracic Shear Wave Elastography (SWE) in lung subpleural lesions: a preliminary report
Carla Maria Irene Quarato (Foggia, Italy), Mariapia Venuti, Donato Lacedonia, Lucia Dimitri, Anna Simeone, Salvatore De Cosmo, Anna Del Colle, Maria Pia Foschino Barbaro, Marco Sperandeo

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Andrea Smargiassi (Roma (RM), Italy), Gino Soldati, Libertario Demi, Riccardo Inchingolo

Clinical applications of contrast-enhanced thoracic ultrasound (CETUS) compared to standard reference tests: a systematic review
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Sonographic evaluation of the diaphragm as an educational reinforcement during adaptation to the Nimv
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Diagnostic yield and safety of image-guided pleural biopsy: a systematic review and meta-analysis
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2791 Study of ultrasound guided transthoracic fine needle aspiration and core needle biopsy in the diagnosis of peripheral pulmonary lesions
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2792 Usefulness of cytologic examination of bronchial washing samples in endobronchial ultrasound
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2794 Treasure hunt in the mediastinum lesions or lung lesions by EBUS-TBNA or EUS-B-FNA: A road map for the best route
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2795 Diagnostic utility of EBUS-TBNA according to lymph node stations in sarcoidosis
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Pre-congress content
Session 188 00:00 - 23:59

E-poster session: Non-tuberculous mycobacteria and latent tuberculosis infection

Disease(s): Airway diseases, Interstitial lung diseases

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

Chairs: André Filipe dos Santos Silva (Porto, Portugal), Jan Heyckendorf (Hamburg, Germany)

2796 Identification and morphological features of non-tuberculous mycobacteriosis of patients operated on for pulmonary tuberculosis
Vilayat Aliev (Moscow, Russian Federation), Larisa Lepeha, Tatyana Smirnova, Anna Sargsyan, Natalya Makaryants, Elena Krasnikova, Mamad Bagirov

2797 Epidemiology of non tuberculous mycobacterial infection in five areas in northern Spain
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Javier Ugeo Urruela, Lander Altube, Julia Garcia Fuertes, Jose Andres Molina Espejo, M. Victoria Leal Arranz

2798 Treatment outcomes of non tuberculous mycobacterial (NTM) pulmonary disease. Multicenter study
Beatriz Gonzalez Quero (bilbao, Spain), Eva Tabernero Huguet, Lander Altube, Javier Ugeo, Victoria Leal, Jone Solorzano Santobeña, Lorea Martinez Indart, Julia Garcia Fuertes

2799 Differential diagnosis of destructive pulmonary tuberculosis in real clinical practice
Natalka Karpina (Moscow, Russian Federation), Ruslan Asanov, Irina Shabalina, Ekaterina Shishkina, Atadzhan Ergeshov

2800 Phenotyping and treatment of endobronchial Tuberculosis: A Case Series
Shubham Sharma (Jaipur (Rajasthan), India), Aloke Gopal Ghoshal, Shyam Krishnan, Praveen Kumar Shahi, Raja Dhar

2801 Research of apoptosis of bronchial epithelial cells in multidrug-resistant tuberculosis
Yeremenchuk Inga (Chernivtsi, Ukraine), Todoriko Liliia, Semianiv Ihor

2802 From environmental bacteria to obligate pathogen: the study of adaptations enhancing the persistence of tuberculosis bacilli
Aideen C. Allen (Toulouse, France), Wladimir Malaga, Catherine Astarie-Dequeker, Ali Hassan, Céline Berrone, Flavie Moreau, Philip Supply, Roland Brosch, Christophe Guillot

2803 In-vitro effect of bioactive fractions of Cinnamomum verum (Cv) on cytokine levels in Mycobacterium tuberculosis (MTB) infected macrophages.
Shashikant Vaidya (Mumbai (Maharashtra), India), Jinesh Maniar, Jaishankar Sharma

2804 Characteristics of smear-positive pulmonary tuberculosis patients with delayed diagnosis
Chie Yamamoto (Fukuchiyama Kyoto, Japan), Atsushi Kawashima, Ryo Sawada, Shun Futamura

2805 Anti-TB efficacy of PBTZ169 in mice with different genetic susceptibility to infection
Boris Nikonenko (Moscow, Russian Federation), Vadim Makarov, Irina Bocharova, Maria Korotetskaya, Elena Kondratieva, Natalya Sterzhanova, Alex Apt

2806 Different antimycobacterial activity of macrophages in various lung tuberculosis lesions of patients
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2807 Mycobacterium tuberculosis modulates mitochondrial function in human macrophages
Claudio Bussi (London, United Kingdom), Mariana Silva Dos Santos, Elliott M. Bernard, Pierre Santucci, James I. Macrae, Maximiliano G. Gutierrez
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<td><strong>Method(s):</strong> General respiratory patient care, Pulmonary function testing, Imaging, Surgery, Epidemiology, Respiratory intensive care, Palliative care, Cell and molecular biology</td>
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#### Chairs: Emma Williams (London, United Kingdom), Sotirios Fouzas (Patras, Greece)

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The effect of IGF-1 therapy on lung development in a preterm piglet model
Kristien Vanhaverbeke (Berchem, Belgium), Annelies Van Eyck, Kristine Holgersen, Jacky De Leeuw, Miriam Ayuso, Isabel Pintelon, Chris Van Ginneken, Benedicte De Winter, Kim Van Hoorenbeeck, Stijn Verhulst, Thomas Thymann, Per Sangild, Antonius Mulder

Application and diagnostic accuracy of nonbronchoscopic bronchoalveolar lavage for ventilator-associated pneumonia in the neonatal intensive care unit: a randomized controlled trial
Ming Hong Tsai (Yunlin, Taiwan), Shih Ming Chu, Jen Fu Hsu

Predicting hospitalisation post-discharge in preterm infants by tPTEF/TE
Emanuela Zannin (Milano (MI), Italy), Anna Lavizzari, Marijke Ophorst, Francesca Ciuffini, Silvana Gangi, Mariarosa Colnaghi, Raffaele Dellacic, Fabio Mosca

Ten-year review of congenital thoracic malformations in Wales
Lena Thia (Cardiff, United Kingdom), Laura Price, Emily King, Elisabeth Parks, Rhian Isaac, Iolo Doull, Julian Forton, Lena Thia

How children on long term ventilation die
Anna Mulholland (Liverpool, United Kingdom), Clare Halfhide, Andrew Selby

Mechanical ventilation management during high-frequency oscillatory ventilation for premature infants with severe hypoxemic respiratory failure
Shih Ming Chu (Taiwan), Ming Hong Tsai, Jen Fu Hsu

Thoracoabdominal rebalancing method and conventional respiratory physiotherapy in removing airway secretions in newborns
Ingrid Guerra Azevedo (Natal (RN), Brazil), Bruno Henrique Silva De Souza, Ingrid Fonseca Damasceno Bezerra, Sabrineh Suelen Santos Sampaio, Silvana Alves Pereira

Outcomes following the use of inhaled nitric oxide rescue therapy in preterm infants less than 30 weeks gestation
Davina Sham (Leicestershire, United Kingdom), Sumit Mittal, Robin Miralles

A UK survey of the management of infants with bronchopulmonary dysplasia (BPD)
Emma Russell-Jones (London, United Kingdom), Eleanor Jeffreys, Emma Williams, Sarah Sturrock, Anne Greenough

Clinical Spectrum of Neonatal Respiratory Morbidity in Developing Country
Nisha Keshary Bhatta (Dharan, Nepal), Sandeep Chauhan, Jyoti Agrawal, Shanker Yadav, Lok Raj Sah, Rupa Rajbhandarsingh

In-silico aerosol delivery to spontaneously-breathing paediatric patients via oral (south-facing) RAE endotracheal tubes
Natalie Anderson (Perth, Australia), Ryan Mead-Hunter, Britta S Von Ungern-Sternberg, Alexander Larcombe, Andrew King, Benjamin Mullins

Pre-congress content

Session 190 00:00 - 23:59

E-poster session: Conventional bronchoscopy

Disease(s): Thoracic oncology, Airway diseases, Interstitial lung diseases, Respiratory critical care

Method(s): Endoscopy and interventional pulmonology, Pulmonary function testing, Imaging, Respiratory intensive care

Chairs: Christophe von Garnier (Lausanne, Switzerland), Ria Shah (Mumbai (Maharashtra), India)

Molecular testing with Next Generation Sequencing on Bronchial Lavage from patients with suspect lung cancer
Luca Morandi (Ferrara (FE), Italy), Alberto Papi, Francesca Tosrani, Roberta Roncarati, Laura Lupini, Massimo Negrini, Gian Luca Casoni

Bronchial brushing are still usefull in the diagnosis of peripheral lesions?
Elena Torricelli (Firenze (FI), Italy), Giulia Innocenti Bruni, Cecilia Marmai, Nirvana Stanflin

Utility of fiberoptic bronchoscopy in the critical care unit: how far-reaching are the complications and outcomes?
Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Marwa Khedr

Bronchoalveolar lavage: are we following ATS guidance?
Ivor Allon (London, United Kingdom), Stephen Joseph, Rahul Mogal, Rama Vancheswaran

Utility of ultrathin bronchoscope in a bronchoscopy unit
Itziar Campo Esnaola (PAMPLONA, Spain), Sergio Curi Chércoles, Leire Albarrán De La Cruz, José Antonio Cascante Rodrigo, Javier Villuela Bayón, Javier Hueto Pérez De Heredia, Pilar Cebollero Rivas
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<td>Evaluation of regional pulmonary function using a bronchoscopic capnometer in patients with COPD</td>
<td>Shin Matsuzawa, Hiroki Nishine, Hirotaka Kida, Teruomi Miyazawa, Takeo Inoue, Masamichi Mineshita</td>
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<td>Impairment of pulmonary function as a main risk factor for ineffective endobronchial valve placement in patients with chronic cavitary tuberculosis</td>
<td>Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Olga Lovacheva, Irina Shabalina, Tatevik Bagdasaryan, Natalya Chernykh, Elena Krasnikova, Olga Gordeeva, Natalya Karpina</td>
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<td>2841</td>
<td>Hemorrhagic Endobronchial metastasis of renal cell carcinoma</td>
<td>Marcos Oliveira (Agua de Cima, Portugal), Jorge Dionisio, Ambrus Szantho, Duro Da Costa</td>
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<td>2842</td>
<td>Impact of ROSE on the diagnostic yield of fluoroscopy guided bronchoscopy in diagnosing peripheral pulmonary lesions</td>
<td>Fausto Leoncini (Montespertoli (FI), Italy), Guido Levi, Mauro Novali, Luca Boni, Federico Quadri, Valentina Luzzi, Claudio Tantucci, Michela Bezi</td>
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<td>2843</td>
<td>The role of bronchoscopy in the differential diagnosis of pulmonary lesions in end-stage renal disease patients</td>
<td>Olga Gordeeva (Moscow, Russian Federation), Natalia Karpina, Ilya Sivokozov, Yulia Turovtceva, Irina Shabalina, Dmitry Dedushkin</td>
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<td>2844</td>
<td>Spirometry as an integral part of benign tracheal stenosis management</td>
<td>Josué Pinto (Porto, Portugal), Bruno Chambel, Cláudia Prettas, Mariana Conceição, António Morais, Gabriela Fernandes, Adriana Magalhães, Héléd Novais Bastos</td>
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<td>2845</td>
<td>Different Processing method in each fractionation of bronchoalveolar lavage fluid indicated different diagnosis</td>
<td>Yuko Waseda (Yoshida-gun, Japan), Toshihiro Takeda, Masayuki Sato, Akikazu Shimada, Tomaoki Sonoda, Makiko Yamaguchi, Chisato Honjo, Maiko Kadowaki, Hiroko Shigemi, Yukihiro Umeda, Masaki Anzai, Keigo Saeki, Satoshi Watanabe, Kazuo Kasahara, Tamotsu Ishizuka</td>
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<td>2846</td>
<td>A visual estimate for hemorrhage during flexible bronchoscopy: A registered, cross-sectional study</td>
<td>Wendy Laijen (Leeuwarden, Netherlands), Kim De Jong, Jolanda Kuijvenhoven, Wouter Van Geffen</td>
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<td>2847</td>
<td>Potential of using probe-based confocal laser endomicroscopy (pCLE) in differential diagnosis of pulmonary TB and sarcoidosis.</td>
<td>Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilyev, Irina Tabanakova, Sultan Gasanmagomedov, Gleb Beliaev, Tatiana Novickaya, Piotr Yablonskii</td>
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<td>2848</td>
<td>Use of an Extended Working Channel in high-risk Transbronchial Biopsy- A simple innovation to enhance safety</td>
<td>Hariprasad Kalpakam, Pavankumar Biraris, Rajani Bhat, Pooja Bajaj, Rohan Aurangabadwala, Ravindra Mehta, Sameer Bansal</td>
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<td>2849</td>
<td>Endobronchial biopsy: a comparative study to evaluate alligator and cup forceps at Institute of Respiratory diseases, SMS medical college, Jaipur</td>
<td>Vinayak Mangal (Jaipur (RJ), India), R. K. Jenaw, Sheetu Singh</td>
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<td>2850</td>
<td>To compare the effect of Dexmedetomidine as a premedication during flexible bronchoscopy with Tramadol and paracetamol- open label randomised control trial</td>
<td>Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Rahul Kathuria, Manish Katiyar, Anupam Samanta, Prashant Bendre, Amit Garg</td>
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<td>2851</td>
<td>Concordance between Rapid On-Site Cytology Evaluation (ROSE) and Final diagnosis in patients undergoing Endobronchial Ultrasound-guided Transbronchial Needle Aspiration (EBUS-TBNA)</td>
<td>Kashif Ali Khan (Manchester, United Kingdom), Nadira Narine, Simon Bailey, Miles Holbrook, David Shelton, Durgesh Rana</td>
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<td>2852</td>
<td>HOW RAPID CAN &quot;RAPID ON-SITE EVALUATION (ROSE)&quot; BE - OUR EXPERIENCE WITH TOLUIDINE BLUE STAINING - CONCORDANCE BETWEEN ROSE AND FINAL CYTOLICAL DIAGNOSIS ON EBUS TBNA SAMPLES</td>
<td>Umang C. Shah (Vadodara (Gujarat), India), Arpan C. Shah, Chandrakant M. Shah, Udayan Kachhhi, Hetal V. Shah, Palak U. Shah</td>
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Pre-congress content | Session 191 | 00:00 - 23:59

E-poster session: Endobronchial ultrasound: from rookie to pro

- **Disease(s):** Thoracic oncology, Interstitial lung diseases, Airway diseases
- **Method(s):** Endoscopy and interventional pulmonology, Surgery, Imaging, Respiratory intensive care, General respiratory patient care, Physiology
- **Chairs:** Karan Madan (New Delhi (Delhi), India), Chair to be confirmed
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<td>Late Breaking Abstract - Effect of endobronchial coil therapy-a lung volume reduction therapy-on hemorheological and oxidative parameters</td>
<td>Nazli Cetin (Denizli, Turkey), Erhan Ugurlu, Emine Kilic Toprak, Nilufer Yigit, Özgen Kilic Erkek, Hilmiye Pakyurek, Hande Senol, Gökşen Altinisik, Mele Körükükatay</td>
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<td>The utility of elastography visual features to predict nodal malignancy during EBUS-TBNA</td>
<td>Ben Teng (Manchester, United Kingdom), Kashif Khan, Haider Al-Najjar</td>
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<td>2855</td>
<td>Feasibility and patient satisfaction with transnasal diagnostic EUS-b under conscious sedation</td>
<td>Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Michele De Santos, Paulo Matos, Lourdes Barradas</td>
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<td>Interobserver agreement on EBUS and EUS-B cytological specimens in patients with sarcoidosis</td>
<td>Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laurence Crombag, Sybren Meijer, Alessandra Cancellieri, Jan Von Der Thüsen, Teodora Radonic, Rieneke Britstra, Rocco Trisolini, Jouke Annema</td>
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<td>2857</td>
<td>Evaluating the role of endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) in the diagnosis of mediastinal metastasis from extrapulmonary malignancies</td>
<td>João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal), Michele De Santos, Maria Inês Matias, Sofia Rodrigues Sousa, Paulo Matos, Ana Luisa Fonseca, Lourdes Barradas</td>
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<td>2858</td>
<td>Periferic located masses and the role of EBUS-TBNA and EUS-B-FNA</td>
<td>Eritjan Tashi (Fier, Albania), Alma Teferici, Fahri Kokici, Perlat Kapiszy</td>
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<td>2859</td>
<td>What is the added diagnostic yield of mediastinoscopy following nondiagnostic EBUS-TBNA thoracic lymph node sampling?</td>
<td>Abdulrahman Hasan Almadani (Dublin 8, Ireland), Mohammad Aladaileh, Brian McCullagh, Donna Eaton, Karen Redmond, Dermot O’Callaghan</td>
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<td>2860</td>
<td>Diagnosis of mediastinal adenopathies in patients with extrathoracic tumors: role of EBUS-TBNA</td>
<td>Francisco Guillermo Puig Sanchez (sevilla, Spain), Maria Barca Hernando, Lucas Román Rodriguez, Eduardo Márquez Martín, Beatriz Romero Romero, José Martín Juan</td>
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<td>2861</td>
<td>Utility of linear endobronchial ultrasound for diagnosis and mutational analysis in centrally located intrapulmonary tumours</td>
<td>Alison Stockbridge (Birmingham, United Kingdom), Muhammad Majid, Rosamond Nicholson, Muhammad Tufail, R K Panchal</td>
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<td>2862</td>
<td>EBUS-TBNA FOR HILIOMEDIASTINAL LYMPH NODES DIAGNOSIS IN NON-PULMONARY NEOPLASMS</td>
<td>Carolina España Dominguez (Cádiz, Spain), Maria Pérez Morales, María Morales González, Alfonso Marín Andreu, Cayo Garía Polo</td>
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<td>2863</td>
<td>Thoracic endosonography (EBUS/EUS-b). A single center retrospective analysis.</td>
<td>Serafeim Chrysikos (Athens, Greece), Theodoros Karampitsakos, Maria Anyfanti, Ourania Papaioannou, Georgios Hillas, Katerina Dimakou</td>
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<td>2864</td>
<td>Can the convex probe endobronchial ultrasound-assisted transbronchial needle method establish the diagnosis of anthracosis in patients with enlarged mediastinal lymph nodes?</td>
<td>Gülşehre Oğuztürk (Istanbul, Turkey), Ekrem Cengiz Seyhan, Halit Cinarka, Hasan Akin, Mehmet Atilla Uysal</td>
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<td>2865</td>
<td>Role of EBUS-TBNA in the study of PD-L 1 expression in patients with non-small cell lung cancer (NSCLC)</td>
<td>Francisco Guillermo Puig Sanchez (sevilla, Spain), Lucas Román Rodriguez, Maria Barca Hernando, Eduardo Márquez Martín, Beatriz Romero Romero, José Martín Juan</td>
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<td>2866</td>
<td>Endosonography in diagnosis of mediastinal lymphoma - is it too weak to be used?</td>
<td>Ilya Sivokozov (Moscow, Russian Federation), Irina Shabalina, Dmitry Dedushkin, Galina Evgushenko, Yuri Berezovsky, Natalya Makaryants, Natalya Karpina</td>
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<td>2867</td>
<td>Utility &amp; safety of endoscopic ultrasound guided sampling of mediastinal nodes or lesions with bronchoscope(EUSB).</td>
<td>Abhijit Vinod Ahuja (Mumbai (Maharashtra), India), Ankan Banerjee, Dhammdeep Kadam, Sagar Raiya, Jeenam Shah, Rajiv Goyal</td>
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<td>2868</td>
<td>Comparative efficacy of radial endobronchial ultrasound versus virtual bronchoscopy in patients with peripheral pulmonary lesions</td>
<td>Yana Chesalina (Moscow, Russian Federation), Dmitry Dedushkin, Irina Shabalina, Yuri Berezovsky, Galina Evgushenko, Natalya Karpina, Ilya Sivokozov</td>
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<td>2869</td>
<td>Role of radial EBUS cryobiopsy in peripheral pulmonary lesions: a case series</td>
<td>Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Swapnil Bakamswar, Parimal Deshpande</td>
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EUS-B-FNA enhances the diagnostic yield of EBUS bronchoscopy examination for intrathoracic lesions
Masahide Oki (Nagoya, Japan), Hideo Saka, Yoshihito Kogure, Hideyuki Niwa, Fumie Shigematsu, Akane Ishida, Atsushi Torii, Chiyoe Kitagawa

Pre-congress content

Session 192
00:00 - 23:59

E-poster session: Tapas of respiratory physiotherapy

**Disease(s):** Airway diseases, Respiratory critical care, Interstitial lung disease, Sleep and breathing disorders

**Method(s):** General respiratory patient care, Pulmonary function testing, Pulmonary rehabilitation, Physiology, Cell and molecular biology, Surgery

**Chairs:** Christian Osadnik (Melbourne, Australia), Victoria Alcaraz Serrano (Barcelona, Spain)

2871
**Optoelectronic plethysmography: reference values for breathing pattern**
Liliane Mendes (Belo Horizonte (MG), Brazil), Raquel Britto, Guilherme Fregonezi, Vanessa Resqueti, Marina Fagundes, Armênia Dornelas, Renata De Souza, Daniella Brandão, Verônica Parreira

2872
**Thoracic/abdominal kinematics of children and adolescents with asthma before and after physical effort**
Evelin Gomes (São Paulo (SP), Brazil), Carla Cavassini, Maisi David, Josiane Luiz, Dirceu Costa

2873
**Effects of the elastic tape on dyspnea, health status, and health-related quality of life in individuals with COPD: a randomized controlled trial**
Eloise Santos (São Paulo, Brazil), Thiago Fernandes, Rafaela Xavier, Regina Carvalho-Pinto, Rafael Stelmach, Celso Carvalho

2874
**Decision tree models as a classifier of endothelial function based on strength, pulmonary and cardiac function in COPD: Preliminary analysis.**

2875
**Dynamic Balance, Exercise Capacity and Muscle Oxygenation in Children with Non-Cystic Fibrosis Bronchiectasis**
Jan Dik (Ankara, Turkey), Haluk Tekerek, Melda Saglam, Naciye Yard, Ebru Calik Kutukcu, Deniz Inal Ince, Deniz Dogru Eroz

2876
**Clinical characteristics of COPD Phenotypes**
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Machado, Sara Souto-Miranda, Cristina Jácome, Joana Cruz, Ana Oliveira, Vera Enes, Vera Afreixo, Vitória Martins, Lília Andrade, Carla Valente, Diva Ferreira, Paula Simão, Ana Tavares

2877
**The relationship of walking speed with clinical parameters in patients with non-cystic fibrosis bronchiectasis**
Buse Ozcan Kahraman (Izmir, Turkey), Meike Mese, Seman Selcuk, Aylin Tanriverdi, Damla Gündüz, Can Sevne

2878
**The prevalence of poor fitness in children in a regional multidisciplinary severe asthma clinic, UK**
Clare Hepworth (Liverpool (Merseyside), United Kingdom), Neil Mingaud, Sioned Davies, Philip Lawrence, Andrew Lilley, Lucy Gait, Lynsey Brown, Victoria Worrall, Christopher Grime, Rebecca Thurfield, Ian Sinha, Mg Semple

2879
**Implementation of immersive virtual reality influences outcomes of exercise test**
Sebastian Rutkowski (Opole, Poland), Patryk Szary, Anna Rutkowska, Jerzy Sacha, Richard Casaburi

2880
**Could step and stepper tests be valid to assessing the exercise and functional capacities in patients with COPD? Results from a systematic review.**
Rui Vilariinho (Porto, Portugal), Cátia Caneiras, Antonio Mesquita Montes

2881
**COMPARISON OF PHYSICAL PERFORMANCE AND SPIROMETRY VALUES ACCORDING TO FALL RISK OF COPD SUBJECTS**
Beyza Nur Karadüz (Ankara, Turkey), Yasemin Cirak, Ebru Calik-Kutukcu, Gul Deniz Yilmaz-Yelvar, Nurgul Durustkan-Elbasi

2882
**Functional capacity categorization of pulmonary fibrosis patients according International Classification of Functioning, Disability and Health (ICF) qualifiers.**
Carina Nunes (São Paulo (SP), Brazil), Patricia Lira Dos Santos, Soraia Micaela, Frederico De Melo Cruz, João Carlos Ferrari Correa, Ivan Peres Costa, Luciana Maria Malosa Sampao

2883
**Respiratory muscle function in patients with gastroesophageal reflux disease with extraesophageal symptoms**
Katerina Neumannova (Olomouc, Czech Republic), Jaromir Zatloukal, Pavla Horova, Tamara Michalcikova, Martin Dvoracek
Pre-congress content

Session 193  00:00 - 23:59

E-poster session: Asthma science: novel targets and mechanisms

**Disease(s)**: Airway diseases, Interstitial lung diseases

**Method(s)**: General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Physiology

**Chairs**: Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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**Identification of mechanism-specific biomarkers to guide development of the lung-selective inhaled pan-JAK inhibitor TD-8236**

Emma Gordon (South San Francisco, United States of America), Elad Kaufman, Reuben Sana, Alexander McNamara, Nathan Pfeifer, Edmund J. Moran, Glenn D. Crater, Melanie A. Kleinschek, Jacky Woo, Thomas Southworth, Thomas Scott, Dave Singh

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**Oligomeric proanthocyanidin attenuated asthma severity by rebalanced epithelial phenotypes and airway microenvironment**

Xiaoning Zeng (Nanjing, China), Yihang Gu, Xiuhua Zhong, Hao Gu, Yuan Ma

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**Precision-cut lung slices as an in vitro model for testing of novel therapeutic agents**

Daniela Belamaric (Zagreb, Croatia), Matea Cedilak, Vedrana Radovanovic, Mihaiio Banjanac, Lidiia Pribolsan, Vesna Erakovic Haber, Martina Bosnar

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**Thrombin induces stomatin-like protein 2 (STOML2) expression and IL-8/CXCL8 release by ROCK, JNK, and PEA3 pathways in human lung epithelial cells**

Bing-Chang Chen (Taipei, Taiwan), Chien-Huang Lin

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**A CADSET WP4 transcriptomic analysis of Asthma and COPD overlap**

Ian M. Adcock (London, United Kingdom), Kai Sun, Nazanian Zoumenat Kermani, Lies Lahousse, K Fan Chung, Rosa Faner, Gavin Donaldson, Jadwiga Wedzicha, Alvar Agusti, Maarten Van Den Berge

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**EP4 agonist increases myeloid derived suppressor cells activity and reduces airway inflammatory events in a murine model of asthma**

Saeed Kolahian (Tübingen, Germany), Chiel Van Geffen, Astrid Dießler, Sandra Beer-Hammer, Bernd Nürnberg

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**A novel protective role of prostaglandin D2 in antigen-induced bronchoconstriction**

Jesper Säfholm (Solna, Sweden), Willem Abma, Jieliu Liu, David Balgoma, Johan Kolmert, Alexander Fauland, Craig E. Wheelock, Mikael Adner, Sven-Erik Dahlén
2898 Bronchial thermoplasty for the treatment of asthma patients with COPD characteristics: an exploratory histopathological evaluation.
Eleni Papakonstantinou (Thessaloniki, Greece), Triantafyllia Koletsa, Michael Roth, Meropi Karakioulaki, Spasenija Savic, Leticia Grize, Michael Tammi, Daiana Stolz

2899 Degeneration of nerve fibers in chronic obstructive lung disease and usual interstitial pneumonia
Johannes Leopold (Austria), Luka Breic, Sylvia Eidenhammer, Wim Timens, Helmut H. Popper

2900 IND/GLY/MF: synergism in medium and small human hyperresponsive airways
Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ivan Nikolaev, Mario Cazzola, Maria Gabriella Matera, Luigino Calzetta

2901 The effect of inhaled corticosteroids on airway Na/K ATPase content in patients with asthma
Morten Hvitholdt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Clausson, Jonas S Erjefält, Celeste Porsbjerg

2902 GB001 potently inhibits PGD2 metabolite-induced DP2-mediated cell signaling and eosinophil activation
Susan Murphy (San Diego, United States of America), Taylor Ismaili, Kristen Taylor Meadows, Sunil Sahdeo, Hector Ortega, Laura Carter, Luisa Salter-Cid

2903 Differential effects of pharmacological leukotriene pathway modulators in a human lung tissue explant model
Henric Olsson (Lund, Sweden), Stefan Vollmer, Lisa Israelsson, Julia Lindgren, Zala Jevnikar Rojnik

2904 Pioglitazone inhibits obesity-related airway hyperreactivity
Zhenying Nie (Portland, United States of America), David Jacoby, Allison Fryer

2906 Anti-inflammatory properties of synthetic and endogenous Rev-Erb-alpha agonists.
Eva Sturm (Graz, Austria), David Roula, Petra Luschnig, Iris Red, Akos Heinemann

2908 RAPID lung cancer diagnostic and care pathway from referral to treatment
Adnan Amir (Hull, United Kingdom), Alison Spray, Nicola Haley, Kathryn Gracie, Alison Gill

2911 Transforming the Portsmouth Hospitals Lung Cancer Pathway (LCP)
Lauren Fox (Southampton, United Kingdom), David Lodge, Kate Bentley, Laura Wiffen, Clare Bradley, Mohamed Ibrahim, Alexander Hicks

Pre-congress content Session 194 00:00 - 23:59

E-poster session: Management issues in thoracic oncology

Disease(s): Thoracic oncology, Airway diseases

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

Chairs: Susanne Lang (Jena, Germany), Georgia Hardavella (Athens, Greece)

2907 Evaluating the outcomes of patients with haemoptysis referred to two rapid-access lung cancer clinics in the UK
Jonathan Noble (Bristol, United Kingdom), Helen Medill, Clemency Clarke, Eleanor Barton, Martin Plummeridge, Anna Bibby, Andrew Low

2908 Rationalising the lung cancer diagnostic pathway with CT triage: a single centre UK experience.
Eleanor Barton (Bristol, United Kingdom), Helen Medill, Jonathan Noble, Martin Plummeridge, Anna Bibby

2909 The role of a dedicated chest x-ray reporting tool in the lung cancer diagnostic pathway
Helen Medill (Bristol (Avon), United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Anna Bibby, Andrew Low

2910 The travel burden for patients diagnosed with lung cancer at a District General Hospital in South East London.
Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn

2911 Route of referral correlates to lung cancer stage and with outcomes at a District General Hospital in South East London.
Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn

2912 RAPID lung cancer diagnostic and care pathway from referral to treatment
Adnan Amir (Hull, United Kingdom), Alison Spray, Nicola Haley, Kathryn Gracie, Alison Gill

2913 Does a MultiDisciplinary Team approach affect time to treatment in NSCLC?
Fausto Leoncini (Montespertoli (FI), Italy), Guido Levi, Mauro Novali, Federico Quadri, Elsa Martinelli, Michela Bezzi
Factors associated with lung cancer in patients referred to a fast-track clinic
Helen Mcdill (Bristol (Avon), United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Andrew Low, Anna Bibby

Nutritional assessment for patients with lung cancer
Abdoulekh Khouloud (Sfax, Tunisia), Ayadi Hajer, Kallel Nessrine, Yangui Ilhem, Feki Walid, Kammoun Sami

Correlation of Imprint and Crush cytology with Bronchoscopic biopsy in the diagnosis of Bronchogenic carcinoma
Pratiksha Karki (Biratnagar, Nepal), Ashesh Dhungana, Samir Neupane

Evolution in the pathological study of lung cancer
Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Esther Sanchez, Maria Carmen Fernandez Aguirre

Towards personalized treatment in non-small-cell lung carcinoma
Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Ester Sanchez Alvarez, Maria Carmen Vera Sanchez

EQ-5D-3L questionnaire for quality of life assessment among lung cancer patients
Baraa Ben Bdira (Monastir, Tunisia), Imen Gargouri, Wafa Benzarti, Sana Aissa, Asma Knaz, Abdelaziz Hayouni, Ahmed Abdelghani, Abdelhamid Garrouch, Mohamed Benzarti

Characteristics of lung cancer in our hospital in the last two years
Sofía Jaurrieta Largo (Valladolid, Spain), Rafael López Castro, Marta Belver Blanco, Blanca De Vega Sánchez, Vicente Roig Figueroa, Carlos Disdier Vicente

Our experience and outcomes following indwelling pleural catheter (IPC) insertion at the University Hospital Coventry and Warwickshire (UHCW) and the effect of primary tumour site on outcomes.
Viren Ahluwalia (, United Kingdom), Vishal Nathwani, Joseph Glover

Assessing the role of pleural fluid in current cancer diagnostic pathway.
Catherine Doig (London, United Kingdom), Christopher Butter, Nikolaos Hadjisavvas, Sujoy Saikia, Ali Fawzi, Madeleine Hewish, Shashank Sharma

Quality of life and psycho-affective disorders in patients treated for lung cancer
Houda Snène (Tunis, Tunisia), Line Kaabi, Hana Blibech, Donia Belkhir, Asma Zaafouri, Meriem Ben Rhouma, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Performance and safety of endoscopic procedures in superior vena cava syndrome
Catherine Boily-Daoust (Montréal (QC), Canada), Alexandre Plante, Cedrick Adam, Marc Fortin

Pre-congress content

E-poster session: Aspects of pulmonary rehabilitation: part 1
Disease(s): Thoracic oncology, Airway diseases, Interstitial lung diseases
Method(s): Pulmonary rehabilitation, Surgery, General respiratory patient care
Chairs: Theresa Harvey-Dunstan (Loughborough (Leicestershire), United Kingdom), William Poncin (Bruxelles, Belgium)

Pulmonary rehabilitation in patients with pulmonary sarcoidosis: impact on exercise capacity and fatigue.
Anita Gronstiid (Slattum, Norway), Martijn A Spruit, Line M Oldervoll, Nina K Vollestad, Anne Edvardsen

The effect of PR on dyspnea during daily life: do we improve all self-reported items of the CRDQ-D?
Sofie Breuls (Leuven, Belgium), Thierry Troosters, Astrid Blondeel, Wim Janssens, Heleen Demeyer

Frailty in chronic respiratory disease: direction of response to pulmonary rehabilitation
Kola Akinlabi (London, United Kingdom), Binny Patel, Ken Johnston, Radoslav Trojak, Bunmi Adebajo, Gavin Sandercock

A profile of frailty in a population of stable COPD outpatients using supplemental oxygen
Ciara Gleeson (Co. Kildare, Ireland), Robert Keegan, Kate Devenney, Emer O'Shea, Julie Broderick

Outcomes of hospital-based pulmonary rehabilitation in patients with multimorbidity
Maria Koulopoulou (London, United Kingdom), Michelle Johnson, Gemma Kerslake, Peter Cho, Charles Reilly, Laura-Jane Smith, Irem Patel

Multi-dimensional evaluation of daily living activities in lung cancer
Hamide Sahin (Ankara, Turkey), Melda Saglam, Nazife Yvardar Yaglı, Kübra Kılıc, Ebru Çalış Kütükçü, Deniz Inal Ince, Saadettin Kilickap
### Activities of daily living: a comparison between patients with COPD and ILD
Sara Souto-Miranda (Aveiro, Portugal), Ana Alves, Miguel P. Almeida, Angela Albuquerque, Carla Valente, Vitória Martins, Pedro Ferreira, Alda Marques

### Occupational Performance in Patients with Bronchial Asthma
Melda Saglam (Ankara, Turkey), Husna Guzel, Serkan Pekcecin, Naciye Vardar Yagli, Hasim Boyaci

### The Association Between BODE Index and Activities of Daily Living, Occupational Performance, Psychosocial Status and Health Related Quality of Life in Patients with COPD
Beyza Nur Karaduz (Ankara, Turkey), Ebru Calik-Kutucu, Cigdem Oksuz, Melda Saglam, Deniz Inal-Ince, Naciye Vardar-Yagli, Sema Savci, Tulin Dugor, Hulya Arkan, LutfiCoplu

### Minimal clinically important difference of the Brief-BESTest in COPD
Cátia Paixão (Guarda, Portugal), Patricia Rebelo, Ana Oliveira, Cristina Jácome, Joana Cruz, Vitória Martins, Paula Simão, Alda Marques

### Predictive modelling for optimization of preoperative care in multimorbid patients undergoing major surgery
Anaël Barberan-Garcia (Barcelona, Spain), Mar Montane-Muntane, Alícia Hervas, Pilar Hurtado, Betina Campero, Bárbara Romano-Andrión, Silvia Terés-Belles, Elena Gimeno-Santos, Josep Roca, Graciela Martínez-Pallí

### Physical activity "responders" vs “non-responders” after exercise training with air or oxygen in people with COPD and exercise-induced desaturation
Zoe McKeough (Sydney (NSW), Australia), Regina Leung, Anne Holland, Kylie Hill, Norman Morris, Sue Jenkins, Lissa Spencer, Catherine Hill, Annemarie Lee, Helen Seale, Nola Cecins, Christine Mcdonald, Jennifer Alison

### Integrating Ambulatory Oxygen assessments into a specialist Interstitial Lung Disease (ILD) clinic
Jennie Turnbull (Maidstone, United Kingdom), Lynn Mcdonnell, Wai Lam-Richardson, Alex West, Amy Dewar

### Does pulmonary rehabilitation (PR) affect dysfunctional breathing (DB) in asthmatics?
Franziska Ebert (Bad Reichenhall, Germany), Michael Schuler, Dennis Nowak, Larissa Schwarzkopf, Boglárka Szentes, Konrad Schultz

### Functional ability in patients with COPD
Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Sara Souto-Miranda, Ana Tavares, Ana Oliveira, Cristina Jácome, Joana Cruz, Bruno Cabrita, Catarina Cascais Costa, Carla Valente, Vitória Martins, Lilía Andrade, Paula Simão, Alda Marques

### The Effects of virtual reality on pulmonary functions, functional level and pain in the early period after open heart surgery
Zubeyr Tasci (İstanbul, Turkey), Yasemin Çirak, Nurgül Elbasi, Yunus Emre Tutuneken, Burcu Pamukcu, AysegulAsaloğlu

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**Pre-congress content**

**Session 196**

**E-poster session:** Phenotyping sleep-disordered breathing and its impact on various diseases

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

**Method(s):** Epidemiology, General respiratory patient care, Public health, Physiology, Pulmonary rehabilitation, Pulmonary function testing, Endoscopy and interventional pulmonology

**Chairs:** Johan Verbraecken (Edegem (Antwerp), Belgium), Athanasia Pataka (Thessaloniki, Greece)

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**ERS 2020 International Congress**

**DETAILED PROGRAMME**

**MONDAY 24 AUGUST, 2020**

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2947 **EAT, BREATHE, SLEEP with Osteogenesis Imperfecta (OI)**  
Antonella LoMauro (Milano (MI), Italy), Ramona De Amicis, Vittorio Landoni, Giulia De Carlo, Alice Delle Donne, Luana Vicentini, Paolo Fraschini, Simona Bertoli, Andrea Aliverti

2948 **Is there a mortality disadvantage in tracheobronchomalacia?**  
Nneka Nwosu (Liverpool (Merseyside), United Kingdom), Hassan Burhan, Ari Manuel

2949 **Analysis of pulmonary function and obstructive sleep apnea in patients with COPD, asthma and idiopathic pulmonary fibrosis.**  
Kostiantyn Bazyka (Kyiv, Ukraine), Liudmyla Shvaiko, Olena Stadniychuk, Tetiana Kharchenko, Tetiana Kuzmich, Tetiana Khvostenko

2950 **Working conditions and insomnia: the case of Greek hospital physicians**  
Eirini-Sofia Karampi (Peristeri - Athens, Greece), Katerina Baou, Eleni Perraki, Adamantia Sotiriou, Martha Andritsou, Nicolaos Laschos, Spyridon Zakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Emmanouil Vagiakis

2951 **Disturbed sleep and health-related quality of life among hospital physicians**  
Eirini-Sofia Karampi (Peristeri - Athens, Greece), Katerina Baou, Adamantia Sotiriou, Eleni Perraki, Martha Andritsou, Fotini Dariotaki, Stavroula Koutsoumpou, Angeliki Giamarelo, Anastasios Makris, Spyridon Zakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Emmanouil Vagiakis

2952 **Effects of non-invasive mechanical ventilation (NIV) on the upper airway (UA) in patients with amyotrophic lateral sclerosis (ALS) and role of respiratory endoscopy in their assessment**  
Mikel Sarasate Azkona (Barcelona, Spain), Yuliana Pascual, Eva Farrero, Ana Cordoba, Noelia Cubero De Frutos, Marta Diez Ferrer, Cristina Martin Cabeza, Lidia Méndez Mangas, Rosa Lopez Lisbona, Enric Prats

2953 **Respiratory Sleep Disorders Among 37 Patients With Laryngeal Dysfunction.**  
Kamila Sedkaoui (Toulouse Cedex 9, France), Emmanuelle Mouchon, Wossard Virginie, Sabine Crestani, Pascale Fichaux-Bourin, Marianne Lesoucoueser, Alain Didier

2954 **Respiratory events and nocturnal hypercapnia in patients affected by Amyotrophic lateral sclerosis: the role of body mass index (BMI)**  
Grazia Crescimanno (Palermo (PA), Italy), Maria Canino, Manuela Bertini, Oreste Marrone

2955 **Sleep disorders in patients with chronic obstructive pulmonary disease**  
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Roman Yatsyshyn, Natalia Cherniuk

2956 **Characterisation of sleep disordered breathing & mood disorders in patients with heart failure**  
Maitri Munsif (Melbourne, Australia), Rohit Srivatsa, Belinda Lui, Jyotika Prasad, Belinda Miller, Matthew Naughton, Eli Dabscheck

2957 **Sleep disorder and its associated risk of cardiac arrhythmia in Asian population**  
I-Duo Wang (Taipei, Taiwan), Wu-Chien Chien, Pei-Yi Tsai, Chi-Hsiang Chung, Chung-Kang Peng

2958 **Rare cause of central hypoventilation: ROHHAD Syndrome**  
Gizem Özcan (Ankara, Turkey), Elif Oszu, Faziletcan Zirek, Nazan Cobanoglu

2959 **Nocturnal hypoxemia, ambulatory blood pressure and chronic mountains sickness in the highest city in the world**  
Elisa Perger (Milano, Italy), Sebastien Baillieul, Francois Esteve, Aurelien Pichon, Davide Soranna, Stephane Doutreleau, Yann Savina, Mathilde Ullie-Roche, Julien V Brugniaux, Emeric Stauffer, Laura Oberholzer, Connor Howe, Ivan Hannco, Carolina Lombardi, Grazegorz Bilo, Renaud Tamisier, Jean-Louis Pepin, Samuel Verges, Gianfranco Parati

2960 **The ALONNISOS STUDY: Cross-sectional study of the prevalence of Obstructive Sleep Apnea Syndrome (OSAS) and Chronic Obstructive Pulmonary Disease (COPD) in the general population of Alonissos.**  
Sotirios Zarogiannis (Larisa, Greece), Petros Kassas, Evdokia Gogou, Charalampos Varsamas, Konstantinos Vogiatzidis, Aggeliki Psatha, Maria Pinaka, Dimitra Siachpazidou, Alexandra Sistou, Eleftherios Papazoglou, Despoina Kalousi, Konstantina Vatzia, Kiriaki Astara, Nikolaos Tsiovakas, Konstantinos Gourgoulianis

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**Pre-congress content**  
Session 197  
00:00 - 23:59

**E-poster session: A knowledge update on respiratory muscle function, assessment and training**

- **Disease(s):** Respiratory critical care  
  Airway diseases  
  Sleep and breathing disorders

- **Method(s):** Pulmonary function testing  
  Pulmonary rehabilitation  
  Respiratory intensive care  
  Physiology  
  General respiratory patient care  
  Imaging

- **Chairs:** Melda Saglam (Ankara, Turkey), Zafeiris Louvaris (Leuven, Belgium)

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**Relationship between the respiratory function with motor functionality in Duchenne Mucular Dystrophy**  
Vanessa Resqueti (Natal (RN), Brazil), Layana Marques, Pricila Rezende, Ilisa Priscila Santos, Karyna Fonseca, Marina Lyra, Mario Emilio Dourado, Guilherme Fregonezi
Correlations between respiratory function and functional status in Amyotrophic Lateral Sclerosis patients
Karen Pondofe (Natal, Brazil), Ozana Brito, Ana Aline Marcelino, Layana Marques, Priscila Rezende, Italo Nathan Silva, Antonio Sarmento, Mario Emilio Dourado, Guilherme Fregonezi, Vanessa Resqueti

Comparison of two different methods for assessing inspiratory muscle strength in patients with multiple system atrophy: a pilot study
Begum Unlu (Istanbul, Turkey), Semra Oguz, Mine Gulden Polat, Saadet Ufuk Yurdalan, Sibel Ertan, Hulya Apayd

Expiratory muscle training improves pharyngeal muscles and swallowing function in patients with dysphagia
Yuichi Tawara (Hamamatsu, Japan), Ichiro Fujishima, Satoshi Hanai, Shinichi Arizono, Ryo Kozu

Mechanisms of exertional dyspnea in unilaterial diaphragmatic dysfunction
Tin Gojevic (Leuven, Belgium), Mayra Caleffi Pereira, Sauwaluk Dacha, Zafeiris Louvaris, Dries Testelmans, Ghislaine Gayan-Ramirez, Rik Gosselink, Daniel Langer

Is it more effective to begin with inspiratory muscle warm-up before inspiratory muscle training in COPD patients? Preliminary findings of a randomized controlled trial
Ridvan Aktan (Balcova (Izmir), Turkey), Sevgi Özalevli, Aylin Özgen Alpaydin

Enhanced balance strategy after inspiratory muscle training in patients with COPD, an interim analysis
Lotte Janssens (Diepenbeek, Belgium), Daniel Langer, Sauwaluk Dacha, Zafeiris Louvaris, Simon Brumagne, Nina Goossens, Charlotte Amerijckx, Wim Janssens, Luc Janssens, Rik Gosselink

Effect of expiratory muscle training on peak cough flow in children and adolescents with cystic fibrosis
Cigdem Emirza (Istanbul, Turkey), Goksan Kurun Aslan, Ayse Ayzit Kiline, Haluk Cezmi Cokugras

Respiratory Muscle Endurance, Peripheral Muscle Strength and Walking Parameters in Adult Cystic Fibrosis Patients
Rabia Bageci (Bursa, Turkey), Naciye Vardar Yagli, Melda Saglam, Deniz Inal Ince, Fatma Gul Yazicioglu, Ebru Celebioglu

Comparison of Respiratory Muscle Strength, Functional Capacity and Peak Oxygen Uptake In Patients With End-Stage Liver Disease and Liver Transplantation
Bilge Taskun (Ankara, Turkey), Naciye Vardar-Yagli, Melda Saglam, Ebru Calik-Kutukcu, Deniz Inal-Ince, Onur Keskin, Ahmet Bulent Dogrul

Relationship of Respiratory Muscle Endurance Workload with Maximal Oxygen Consumption and Fatigue in Individuals Surviving Colorectal Cancer
Mehmet Fatih Sanver (Ankara, Turkey), Naciye Vardar-Yagli, Melda Saglam, Haluk Tekerlek, Ebru Calik-Kutukcu, Deniz Inal-Ince, Onur Keskin, Ahmet Bulent Dogrul

The effects of expiratory muscle training after colorectal surgery
Erhan Kizmaz (Denizli, Turkey), Orcin Tellii Atalay, Suleyman Gursoy, Ugar Sungurtekin

Relation of Respiratory Function and Functional Capacity, Body Composition in Individuals with Alzheimer’s Disease
Kubra Nur Menengiç (Istanbul, Turkey), Feray GuNGör, Ugur Ovacik, Nilguun Çinar, Ipek Yeldan

The immediate effect of manual diaphragmatic stretching technique on diaphragmatic mobility among cerebral palsy: a pilot study
Surasawadi Bennett (Khon Kaen, Thailand), Wantana Siriratatiwat, Nittaya Tanrangka, Michael Bennett, Jaturat Kanpittaya

Is the sniff value similar to PImax and inspiratory peak pressure in healthy adults?
Ana Lista-Paz (A Coruña, Spain), Sonia Souto Camba, Luiz Gonazlez Doniz, Alejandro Quintela Del Rio, Ana Arbilla Etxarri, Elena Gimeno-Santos, Jordi Vilaro, Rodrigo Torres-Castro, Cristina Serrano Veguillas, Ana B Varas De La Fuente, Pilar Bravo Cortés, Concepcion Martin Cortijo, Esther Garcia Delgado, Josuel Valera Felices, Carolina Gonzalez Montanez, Esther Gimenez Moohluijen, Yolanda Sanesteban Hermida, Rocío Martín Valero, Guilherme A Fregonezi, Marina Francin Gallego, Beatriz Herrera Cortina, Jorge Alvarez Rivas, Antonio T Rios Cortes

Antenor Rodrigues (Toronto, Canada), Yijun Xiong, Irene Telias, Ewan Goligher, Laurent Brochard, W. Darlene Reid

Inspiratory muscle timing activation during inspiratory loading in healthy adults: preliminary results.
Antenor Rodrigues (Toronto, Canada), Yijun Xiong, Irene Telias, Dmitry Rozenberg, Ewan Goligher, Laurent Brochard, W. Darlene Reid

Acute effects of inspiratory muscle training at different intensities in healthy young people
Aylin Tanriverdi (Izmir, Turkey), Sema Saveci, Buse Ozcan Kahraman, Ismail Ozsoy, Ebru Ozpetit
How is ultrasound imaging being used to assess respiratory musculature? A systematic review
Selina M Parry (Parkville (VIC), Australia), Claire Baldwin, Catherine Granger, Kirby Mayer, Shaza Abo, Michael Paris, George Ntoumenopoulos, Amy Pastva, Doa El-Ansary, Marina Mourtzakis, Aarti Sarwal
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| 2999 | A comparison of the clinical profile of Sarcoidosis and Mediastinal TB: A prospective cohort study in a TB endemic population |
| 2999 | Karan Madan (New Delhi (Delhi), India), Sryma Pb, Bijay Pattnaik, Saurabh Mittal, Pavan Tiwari, Vijay Hadda, Deepali Jain, Anant Mohan, Ravindra Pandey, Randeep Guleria |

| 3000 | Pulmonary sarcoid-like granulomatosis during tumour necrosis factor-alpha inhibition: a scoping review |
| 3000 | Allison Michaud (Calgary, Canada), Daniel Vis, Helen Lee Robertson, Jason Weatherald |

| 3001 | Chronic Hypersensitivity Pneumonitis and mortality: impact of comorbidities |
| 3001 | Ana Luisa Fernandes (Matosinhos, Portugal), Bruno Cárbita, Sara Dias, Jorge Ferreira, Inês Neves |

| 3002 | Correlation among pulmonary function tests and radiologic involvement in the monitoring of sarcoidosis |
| 3002 | Joel Francesqui (Barcelona, Spain), Marta Llabrés, Pilar Brito-Zerón, Mariana Benegas, Fernanda Hernandez-Gonzalez, Nuria Albacar, Xavier Bosch, África Muxi, Marc Boada, Marcelo Sánchez, José Ramírez, Carlos Agusti, Manuel Ramos-Casals, Jacobo Sellares |

| 3003 | Characterisation of patients with chronic hypersensitivity pneumonitis (CHP) - a seven year single centre experience |
| 3003 | Abhinav Tiwari (Southampton, United Kingdom), Anna Donaldson, Thomas Jones, Vanessa Titmuss, Suresh Babu |

| 3004 | Allergic diseases in patients with sarcoidosis - data from a tertiary pulmonary center |
| 3004 | Piotr Lacwik (Łódź, Poland), Joanna Milkowska-Dymanowska, Mateusz Kotecki, Łukasz Gwadera, Justyna Sobczak, Sebastian Majewski, Adam Bialas, Maciej Kuczyk, Piotr Kuna, Wojciech Piotrowski |

| 3005 | Comorbidities in sarcoidosis: a retrospective Italian study |
| 3005 | Ilaria Aredano (Parma (PR), Italy), Barbara Barguzi, Elena Beneventi, Matteo Goldoni, Veronica Alfieri, Marina Aiello, Fabio Agusta, Giuseppina Bertorelli, Alfredo Antonio Chetta |

| 3006 | The Profile of Sarcoidosis in Greece: Clinical characteristics, Extra-pulmonary manifestations, Long-term Follow-up |
| 3006 | Ourania Koltsida (Athens, Greece), Anastasios Kallianos, Trakada Georgia, Maria Harikiopoulou, Aggeliki Rapti |

| 3007 | Relapse ratios and factors affecting relapse in sarcoidosis patients that are followed at least 5 years. |
| 3007 | Nagihan Orhan Özer (istanbul, Turkey), Elif Yelda Niksarlioglu, Elif Altundas Hatman, Ayşe Yeter, Eminе Şahin, Güngör Çansarı |

| 3008 | Clinical characteristics and prognosis of sarcoidosis in Western China: a retrospective study |
| 3008 | Xiang Tong, Dongguang Wang, Sitong Liu, Hong Fan |

| 3009 | Problems of diagnosis of pulmonary sarcoidosis |
| 3009 | Zhanna Laushkina (Novosibirsk, Russian Federation) |

| 3010 | Features of scar sarcoidosis: 20 years observation study in K harkiv, Ukraine |
| 3010 | Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Valentyna Pyshynska |
Cardiac symptoms are a survival predictor in sarcoidosis
Theresia Mikolasch (Cambridge (Cambridgeshire), United Kingdom), Henry Yung, Muhunthan Thillai

Predictors of Progression in Patients with Pulmonary Sarcoidosis
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Kseniia Ostrovskia

Clinical and radiological variants of fibrosis pulmonary sarcoidosis
Olga P. Baranova (St. Petersburg, Russian Federation), Alexandra A. Speranskaya, Dali V., Michail M. Ilkovich

Rescue administration of cyclophosphamide in patients with DAH - retrospective evaluation and outcome from our ICU
Jiri Blazek (Nevvěstice, Czech Republic), Olga Kirchnerová, David Havel, Jan Klaboč, Jan Baxa, Petra Moláčková

Personality and chronotype as predictors of sarcoidosis-associated fatigue - a cross-sectional study
Łukasz Mokros (Petrykozy-Osiedle, Poland), Joanna Milikowska - Dymanowska, Łukasz Gwadera, Paweł Górski, Wojtek J. Piotrowski

Correlation of King’s Sarcoidosis Questionnaire with clinical parameters
Bjorn Frye (Freiburg, Germany), Erik Farin-Glattacker, Joachim Müller-Quernheim, Jonas C. Schupp

Methodology of improving compliance and psychoemotional stability of patients with sarcoidosis.
Marina Karuk (Smolensk, Russian Federation), Marina Karuk, Marta Banyonis, Marta Listopadova

Illness perceptions, coping and fatigue among patients with sarcoidosis
Linda Charvoz (Lausanne, Switzerland), Aline Tessari Veyre, Sandra Chatelain, Nicolas Domon, Dorrit Novel, Mary-Line Wiamsemsky, Selma Ahmetovic, Cécile Daccord, Adam Ogna, Laurent Nicod

Pre-congress content Session 200 00:00 - 23:59
E-poster session: Physiotherapy in acute respiratory care
Disease(s) : Airway diseases, Respiratory critical care
Method(s) : Pulmonary rehabilitation, General respiratory patient care, Respiratory intensive care, Pulmonary function testing
Chairs : Selina M Parry (Parkville (VIC), Australia), Rik Gosselink (Leuven, Belgium)

Respiratory rate and tidal volume interaction among Venturi mask kits used at hospital settings: an in vitro study.
Luciana Chiavegato (São Paulo (SP), Brazil), Amanda Pagliocchi, Josè Jardim, Jorge Bonassa, Ilka Santoro

Feasibility of a NMES program in hypoxic severe hospitalized patients with COPD
Irene Torres Sanchez (Santa Fe, Spain), Andrés Calvache Mateo, Laura López López, Alejandro Heredia Ciuró, Arcelci Ortiz Rubió, Marie Carmen Valenza

Postural balance and risk of falls in hospitalized individuals with exacerbation of COPD
Eloise Santos (São Paulo, Brazil), Pollyana Morais, José Lima, Rafaela Xavier, Celso Carvalho

Muscle function and functional exercise capacity during and after a severe acute exacerbation of COPD.
Kirsten Quadflieg (Maasmechelen, Belgium), Ana Machado, Marc Daenen, David Rutten, Michiel Thomeer, Divya Mohan, Martijn A. Spruit, Chris Burtin

Determinants of COPD exacerbations by monitoring the peak expiratory flow rate and seasonal variation in Thailand: A retrospective study
Noppawan Charususin (Pathumthani, Thailand), Termpong Wongwian, Wanupong Kitjawan, Thiti Sricharoenchai

Canadian consensus recommendations for a research agenda in pulmonary rehabilitation post-acute exacerbation of COPD
Tania Janaudis-Ferreira (Montréal (QC), Canada), Samantha Harrison, Sara Ahmed, Jean Bourbeau, Donna Goodridge, Helen-Maria Vasiiliadis, Lauren Tracey, Pat Camp, Francine Campbell, Gail Dechman, Roger Goldstein, Suzanne Levitz, Gregory Moullec, Maria Sedeno, Jadranka Spahić, Michael Stickland, Divya Mohan

Acute exacerbation of COPD: A qualitative exploration of the incident symptomatic experience
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh

Caregivers experiences of mobilization immediately after abdominal surgery
Anna Svensson-Raskh (Huddinge, Sweden), Monika Fagevik Olsén, Malin Nygren-Bonnier, Anna Schandl

Measurement validity of an electronic inspiratory loading device during inspiratory muscle training in weaning failure patients
Marine Van Hollebeke (Leuven, Belgium), Diego Poddiche, Beatrix Clerckx, Greet Hermans, Rik Gosselink, Daniel Langer
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### Pre-congress content

**E-poster session: From tobacco control policy to smoking cessation**

**Disease(s):**
- Respiratory critical care
- Airway diseases
- Thoracic oncology
- Interstitial lung diseases
- Pulmonary vascular diseases

**Method(s):**
- General respiratory patient care
- Epidemiology
- Public health
- Pulmonary rehabilitation
- Pulmonary function testing

**Physiology**

**Chairs:** Athina Diamanti (Pefki, Greece), Elif Dagli (Istanbul, Turkey)

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Smoking cessation program: a 10-year single-centre experience
Margarida V. Matias (Ajuda, Portugal), Ana Luisa Ramos, Marina Alves, Joana V. Carvalho, Ana Filipa Santos, Luciana Bento, Cristina Matos, Fernando Nogueira

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Diurbis Josefina Velasco Álvarez (Madrid, Spain), Carmen Rodríguez Calle, Andrea Perez Figuera, Beatriz Pintado Cort, Francisco León Roman, Edwin Mercedes Noboa, Deisy Barrios Barreto, Isabel Hornero De La Cruz, Rosa Mirambeaux Villalona

Diverse provenience in a smoking cessation program: is there a difference?
Margarida V. Matias (Ajuda, Portugal), Ana Luisa Ramos, Marina Alves, Luciana Bento, Cristina Matos, Fernando Nogueira

“Smoking cessation treatment without previous reduction has no benefits” - a patient’s myth or truth?
Bruno Miguel Oliveira Cabrita (Guimarães, Portugal), Maria Antónia Galego, Ana Luisa Fernandes, Sara Dias, Silvia Correia, Paula Simão, Jorge Ferreira, Joana Amado

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Esther Sánchez Alvarez (Málaga, Spain), Eva Cabrera César, Álvaro Martínez Mesa, Ana Aguilar Gálvez, Nuria Reina Marfil, José Luis Velasco Garrido

EVOLUTION OF THE SEVERITY OF THE NICOTINE WITHDRAWAL SYNDROM (NWS) DEPENDING ON GENDER.
Virginia Guevara Velazquez (Salamanca, Spain), Miguel Ángel Hernández Mezquita, Miguel Barrueco Ferrero, Soraya Jodra Sánchez, Ana Sánchez Fernández, Jaír Rauseo López, María Bartol Sánchez, Ruth García García, Laura Gil Pintor, Cristina Julia Álvarez

Smoking cessation according to nicotine dependence: experience of a smoking cessation program
Joana Raquel Monteiro Ferra (Cacém, Portugal), Ana Cláudia Vieira, Inês Oliveira, Joana Carvalho, Cristina Matos, Fernando Nogueira

The Future of Smoking Cessation
Catarina Cascais Costa (Oliveira de Azeméis, Portugal), Gilberto Teixeira, Lília Andrade

EVOLUTION OF CRAVING ACCORDING TO THE TREATMENT USED TO STOP SMOKING.

COPD patients continue to smoke after being diagnosed for COPD
Paraskevi Katsaounou (Athens, Greece), Keir E. Lewis (Llanelli (Dyfed), United Kingdom)

National epidemiological study of smoking cessation in danish patients with chronic obstructive pulmonary disease
Dea Kejlberg Andelius (Risskov, Denmark), Ole Hilberg, Rikke Ibsen, Anders Løkke

Fully financed smoking cessation for patients with chronic obstructive pulmonary disease (COPD)
Franziska Loth (Chemnitz, Germany), Stephan Mühlig, Jakob Bickhardt, Thomas Heindl

Room for improvement for smoking cessation support in asthma and COPD - a perspective from the Swedish National Airway Register
Lowie G.W., Vanfleteren (Gothenburg, Sweden), Jon R Konradsen, Christophe Pedroletti, Jonas Binmnyr, Peter Edfelt, Yvonne Sjöö, Kerstin Fjällman-Schärberg, Anne Lindberg, Alf Tunsäter, Ann Ekberg Jansson, Caroline Stridsman

Mental health disorders as barriers to quit for asthmatic smokers
Paraskevi Katsaounou (Athens, Greece), Sofia Pappa, Stavros Patrinos, Elpida Sakka, Nikos Sakkas, Alexander Osarogue, Filippos Filipidis
Effect of smoking on atopic and non-atopic adult-onset asthma
Taina Lajunen (Oulu, Finland), Jouni J.K. Jaakkola, Maritta S. Jaakkola

Sleeping disorders during nicotine withdrawal syndrome.
Virginia Guevara Velazquez (Salamanca, Spain), Cristina Julia Álvarez, Miguel Ángel Hernández Mezquita, Jair Rauseo López, María Bartol Sánchez, Laura Gil Pintor, Ana Sánchez Fernández, Soraya Jodra Sánchez, Ruth García Garcia, Miguel Barrueco Ferrero

Smoking status and in-hospital outcomes of ST elevation myocardial infarction patients in a Brazilian public university hospital
Alessandra Hofstadler Deiques Fleig (Santa Maria (RS), Brazil), Isabella Brixner, Natalia Colissi, Alessandra Boesing, Andreaa Seexher, Luiz Fiori, Bruna Santos, Alexandra Cardoso, Alessandro Anversa, Matheus Donadel, Stefano Aita, Marcelo Silva, Claudio Marques, Jacqueline Vaz, Marcia Schmidt, Carlos Gottschall, Alexandre Quadros, Mateus Marques, Anibal Abelin

Participation in a targeted lung health check program and smoking cessation.
Nicholas Hopkinson (London, United Kingdom), Rebecca Mweseli, Ahmad Sadaka, Emily Bartlett, Anand Deveraj, Samuel Kemp, James Addis, Jane Derbyshire, Michelle Chen, Katie Morris

Changes in performance status in continued smokers vs quitters after a diagnosis of lung cancer: a cohort study
Rachel Gemine (Ilanelli (Dyfed), United Kingdom), Kirsty Lanyon, Gareth Davies, Keir Lewis

Smoking cessation in patients with Diabetes Mellitus (DM)
Aliki Korkontzelou (Athens, Greece), Stamatina Driva, Sotiria Schoretsaniti, Sotiris Gyftopoulos, Vasiliki Saltagianni, Martha Andritsou, Sofia Pappa, Vasiliki Papadopoulo, Serena Tonstad, Christina Gratziou, Nikolaos Tentolouris, Paraskevi Katsaounou

Using Q1 methodology to improve training & delivery of smoking cessation advice amongst Portsmouth inpatients to improve long term outcomes
Laura Wiffen (Portsmouth, United Kingdom), Ben Green, Cheryl Kay, Ellie Lanning, Alexander Hicks

The effectiveness of brief advice in ERS-WHO countrywide smoking cessation training in Ecuador
Sofia Belo Ravara (Covilhã, Portugal), Dongbo Fu, Charlotte Pisinger, Vinayak M Prasad, Rosa Sandovalo, Adriana Bacelar Gomes, Pablo Analuisa, Adrian Diaz, Gustavo Giler Alacon, Christina Gratziouz, Paraskevi Katsaounou

A Quality Improvement Project to Increase Smoking Cessation in a Hospital Aacute Cardio-Respiratory Admissions Unit
Daniela Nicoara (Leicester (Leicestershire), United Kingdom), Claire Chebbout, Mike Jones, Carl Guest, Nicola Baker, Caroline Anderson, Victoria Sarb, Samantha Halst, Lisa Clinch, Rachael Evans

Visualization and pattern detection in the dynamic of smoking lapse and relapse during smoking cessation
Maciej Paciorkowski (, Switzerland), Florent Baty, Martin Brutsche

Interdisciplinary smoking cessation school - a cognitive-behavioral approach
Latinka Basara (Zagreb, Croatia), Boris Gracin, Alma Rožman, Tajana Jalušič Glunčić, Miroslav Samaržija

Experience of an integrated smoking cessation practitioner on inpatient referral and treatment of tobacco dependency in a district general hospital
Dinesh Shrikrishna (Bristol (Avon), United Kingdom), Sarah Sneller, Caroline May

Discrepancy of airflow limitation diagnosis between FEV1/FVC
Tetsuo Kimura (Saku, Japan), Satoru Yanagisawa, Nariaki Ohura, Satoshi Wasamoto, Nobutoshi Morozumi

Impaired impulse oscillometry findings relate with respiratory symptoms in individuals with normal spirometry from Swedish CARDioPulmonary BioImage Study (SCAPIS)
Andrei Malinovschi (Upsala, Sweden), Björn Qvarnström, Gunnar Engström, Xing Wu Zhou, Sophia Frantz, Johan Sundström, Christer Janson, Per Wollmer

Forced oscillation technique could make a difference in Sarcoidosis?
Joana Patricia Almeida Borges (Coimbra, Portugal), Fátima Fradinho
Pre-congress content  Session 204  00:00 - 23:59

E-poster session: Lower respiratory tract infections in clinical practice

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

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

**Chairs:** Bin Cao (Beijing, China), Nathan Dean (Murray, United States of America)

**Performing follow up chest x-rays for patients with a recent pneumonia leads to a significant number of other malignant and non-malignant pathologies being diagnosed.**
Peter Dobson (Chichester, United Kingdom), Dominic Marshall, Amy Dewar, Alex West, Anne Collett

**Inflammatory response to Streptococcus pneumoniae was attenuated by moderate aerobic exercise training.**
CLARICE ROSA OLIVO (SAO PAULO, Brazil), Thamyres Castro, Roseane M. Laia, Luana D. Mendonça, Pietro Da Rocha Trindade, Jessica C. Souza, Beatriz M. Saraiva-Romanholo, Maria Leonor S. Oliveira, Eliane N. Miyagi, Carla M. Prado, Iolanda F.C.L. Tiberio
Influence of the infecting serotype on the development of complications in bacteremic pneumococcal pneumonia with high inflammatory response
Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Luis Alberto Ruiz Iturriaga, Marta Maria Garcia Clemente, Pedro Pablo España Yandiola, Remedios Guna Serrano, Leyre Serrano Fernandez, Julia Herrero Huertas, Amaia Artaraz Ereño, Noelia Carrión Collado, Estrella Fernández Fabrellas

Are carbapenems a better antibiotic than others for treat ICU-AP? A post-hoc analysis of a prospective cohort.
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Pier Luigi Di Giannatale, Stefano Nogas, Albert Gabarrus, Miquel Ferrer, Antoni Torres

An RDW-based clinical model predicts long-term survival in patients hospitalized with community acquired pneumonia (CAP): a derivation and validation multicentric study
Jacopo Davide Gianello (Busca, Italy), Renzo Melchiori, Luis Alberto Ruiz Iturriaga, Leyre Serrano Fernandez, Piero Riva, Elisa Testa, Christian Bracco, Stefano Leccardi, Cristina Serraino, Andrea Falcetta, Alberto Silvestri, Massimo Porta, Luigi Fenoglio

Anti-Pseudomonas antibiotic use for hospitalized patients with community-acquired pneumonia
Marcos I. Restrepo (San Antonio, United States of America), Sergi Pascual-Guardia, Judith Marin-Corral, Manuela Carugati, Alejandro Rodriguez, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Martin Kolditz, Stefano Aliberti, Glimp Investigators

The effects of antibiotic therapy at the pre-hospital stage on the in-hospital mortality in adults with community-acquired pneumonia in Russia: observational study results.
Daria Vinokurova (Tomsk, Russian Federation), Olga Kobyakova, Ivan Deev, Evgeny Kulikov, Nikolay Yarovoy

Respiratory diseases in HIV-infected patients in Novokuznetsk, Russia.
Irina Viktorova (Novokuznetsk (Kemerovo), Russian Federation), Vera Zimina, Inna Dadyka, Alexandra Galchin

Relationship between pectoralis muscle mass on chest CT and in-hospital death among patients with pneumonia
Ryoishiuke Yokosuka (Tokyo, Japan), Ryoiske Inai, Syosei Ro, Manabu Murakami, Ryoiske Tugitomi, Kohei Okafuji, Atsushi Kitamura, Yutaka Tomishima, Jinta Torahiko, Naoki Nishimura, Tomohide Tamura

Assessment of the characteristics of community-acquired pneumonia in patients with chronic obstructive pulmonary disease
Nidhal Belloumi (la manouba, Tunisia), Hana Mrassi, Imene Bachouche, Fatma Chermiti Ben Abdallah, Soraya Fenniche

Streptococcus pneumoniae as a Cause of Community-Acquired Pneumonia in Portuguese Adults: A single-center retrospective study
Ana Luisa Ramos Costa e Silva (Lisboa, Portugal), Diogo Paixão Marques, Joana Carvalho, Ana Margarida Mestre, Maria Ana Pessanha, Cristina Toscano, José Melo Cristiano

is hypercapnia associated with severe forms of community-acquired pneumonia?
Alia Ezzouia (Tunis, Tunisia), Chrine Moussa, Houda Rous, Amal Chanoufi, Wajih Ghribi, Ibtihel Khouaja, Amel Khattab, Ines Zendah, Habib Ghedira

Community-acquired pneumonia (CAP): differences between patients with chronic obstructive pulmonary disease (COPD) and those without COPD

Biological resistance to beta-lactam antibiotics in patients with respiratory infection in the prediction of efficiency of antibacterial therapy
Irina Liverko (Tashkent, Uzbekistan)

Continuous detection and prediction model of bacteremia for in-patients: deep learning for time-series EHR data
Hyung Jun Park (Seoul, Republic of Korea), Chang-Min Choi

Aspiration risks factors, microbiology and empiric antibiotics for patients hospitalized with community-acquired pneumonia
Sergi Pascual Guardia (Barcelona, Spain), Judith Marin Corral, Francesco Amati, Stefano Aliberti, Joan Ramon Mascleans, Nilam Soni, Alejandro Rodriguez, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Antonio Anzueto, Katerina Dimakou, Miras Medenica, Roberta Petrimo, Ewoudt Van De Garde, Marcos I Restrepo

Awareness and Pneumonia knowledge: where to start educating?
Catia Cilloniz Campos (Barcelona, Spain), Carmen Rosa Vargas, Cristina Domínedo, Carolina Garcia-Vidal, Laura Moreno

Risk Factors for Multidrug-resistant Bacteria in a Respiratory Intensive Care Unit
Marcos Oliveira (Aguada de Cima, Portugal), Carlos Lopes, Elsa Fragoso, Inês Claro, Catarina Martins, Pedro Falcão, Carla Mimoso, Pilar Azevedo
Good Practices for Prevention and Infection Control in Non-Invasive Ventilation on Hospital environment: knowledge and needs not covered among Healthcare professionals
Lucía Méndez González (Santa Maria da Feira, Portugal), Silvia Saldanha, Iolanda Mota, Cátia Caneiras

Pre-congress content  Session 205  00:00 - 23:59

E-poster session: Epidemiology of paediatric respiratory diseases

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

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

**Chairs:** Marina Attanasi (Chieti (CH), Italy), Bülent Taner Karadag (Istanbul, Turkey)

3107  Bacteriological profile of bronchoalveolar lavage in children at a university hospital in Brazil
Leticia Oliveira Dias (Niterói, Brazil), Ludmila Santos, Saulo Tinoco, Paula Soares, Douglas Guedes, Selma Sias

3108  Clinical features of Mycoplasma pneumoniae infections in Bulgarian children
Dimitrinka Miteva (Sofia, Bulgaria), Snezhana Parina, Kristin Guenkova, Bilyana Georgieva, Penka Perenovska, Guergana Petrova

3109  Clinical-epidemiological study of lipid pneumonia in infants
Paula Serrano Soares (Niterói, Brazil), Ludmila Pereira Barbosa Dos Santos, Leticia Oliveira Dias, Robson De Alvarenga Facina, Thereza Fonseca Quirico Dos Santos, Selma Maria De Azevedo Sias

3110  Morbi mortality of pulmonary hydatid cyst in children
amina abdelkbir (ben arous, Tunisia), Rime Essid, Imen Bouassida, Hazem Zribi, Sarra Maazaoui, Yoldez Houcine, Sonia Ouerghi, Adel Merghli

3111  Marked Variability Observed in Inpatient Management of Bronchiolitis in a tertiarycenter. Can we do better?
Elpis Hatzigiagorou (Thessaloniki, Greece), Syrmo Styliani Kyrvasili, Maria Parisi, Fotios Kirvassilis, John Tzanakis

3112  The spontaneous pneumothorax in children : about 30 cases
amina abdelkbir (ben arous, Tunisia), Imen Bouassida, Sarra Zairi, Hazem Zribi, Amani Ben Mansour, Aida Ayadi, Amira Dridi, Adel Marghli

3113  A review of discharge of children with tracheostomy and long-term ventilation
Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Zaynab Chatoo, Maryam Haifeji, Ben Elkington, Kamini Jain, Helen Hickey

3114  Prevalence of mechanical assisted cough in the Norwegian neuropediatric population
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Maria Vollseta, Ingvild Bruun Mikalsen, Soflid Indrekvam, Vegard Havland

3115  Children on long term ventilation are prone to fragility fractures
Omendra Narayan (Manchester (Greater Manchester), United Kingdom), Abdulla Ali Dawaishan, Aditi Sinha, Stuart Wilkinson, Anna Hughes, Neville Wright, Zulf Mughal

3116  Transitioning adolescents on long term ventilation from paediatric to adult services: Parents’ and carers’ understanding and expectations of the transition process.
Louise Brittenden (Leicester, United Kingdom), Molla Imaduddin Ahmed, Helen Hickey, Louise Mogford, Ben Elkington, Kamini Jain

3117  The prevalence of respiratory diseases in children with birth weight less than 2,500 grams during the first year of life
Evgeny Kulikov (Tomsk, Russian Federation), Kristina Kulikova, Ivan Deev, Polina Khodkevich

3118  Change in the prevalence of asthma and rhinitis related symptoms in school-aged children and adolescents in Costa Rica
Manuel Soto Martínez (San José, Costa Rica), Adriana Yock-Corales, Fiorella Aglietti, Mariana Pacheco, Gloriana Villalobos, Lydiana Avila, Manuel Soto-Quiros

3119  Reported symptoms differentiate diagnoses in children with exercise-induced respiratory problems
Eva Sophie Lunde Pedersen (Bern, Switzerland), Carmen Cornelia Maria De Jong, Cristina Ardura-Garcia, Maria Cristina Mallat, Juerg Barben, Carmen Casaulta, Karin Hoyler, Anja Jochemm, Alexander Moeller, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Myrofora Goutaki, Claudia E Kuehni

3120  Is telephone monitoring as effective as home visit monitoring for technology dependent children?
Fotios Kirvassilis (Oraiokastro, Greece), Elisavet- Anna Chrysochou, Elpis Hatzigiagorou, John Tzanakis
Multidisciplinary approach to paediatric Aerodigestive Disorders: A single centre longitudinal observational study
Nitin Kapur (Brisbane (QLD), Australia), Amol Fuladi, Rahul Thomas, Matthew Wong, Sandra Schilling, Looi Ee, Kelvin Choo, Christopher Bourke, Craig Mcbride, Ian Brent Masters

Lipoid pneumonia in infants: treatment with multiple bronchoalveolar lavages
Paula Serrano Soares (Niterói, Brazil), Ludmila Pereira Barbosa Dos Santos, Leticia Oliveira Dias, Robson De Alvarenga Facina, Thereza Fonseca Quirico Dos Santos, Selma Maria De Azevedo Sias

Pre-congress content Session 206 00:00 - 23:59
E-poster session: Thoracic surgery: malignancies

Safety and risk factors for the morbidity and mortality of pneumonectomies: a retrospective 10-year study in a single institution
Joana Cristina Ferreira Rei (Porto, Portugal), Susana Lareiro, Patricia Castro, Pedro Fernandes, Miguel Guerra, Luis Vouga, José Miranda

Reconstructive surgery for bronchial fistulas after resections of the lung.
Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimiy

Bronchial stump insufficiency after pneumonectomy.
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

Nebulised therapy in preventive maintenance of bronchial stump insufficiency after pneumonectomy.
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

Determinants of completion of a home-based rehabilitation program in patients awaiting lung surgery for lung cancer: a prospective observational multicenter study
Héloïse Catho (Nantes, France), Sébastien Guigard, Anne-Claire Toffart, Gil Frey, Pierre-Yves Brichon, Linda Sakhri, Dominique Bertrand, Charles Aguire, Sandy Gorain, François Arbib, Bernard Wuyam, Jean-Christian Borel

Lung expansion and alternation of low attenuation volume in lobectomized patients.
Masanori Yokoba (Sagamihara (Kanagawa prefecture), Japan), Tsuyoshi Ichikawa, Shinya Harada, Takahiro Ozawa, Seiichiro Kusuhara, Tomoya Fukui, Satoshi Igawa, Hisashi Mitsufuji, Masaru Kubota, Jiichiro Sasaki, Katsuhiko Naoki, Yukitoshi Sato, Masato Katagiri

Use of polyvinyl alcohol sponge and cyanoacrylate glue in the treatment of bronchopleural fistula.
Giovanni Galluccio (Roma, Italy), Gabriele Lucantoni, Sofia Romani, Raffaele Dello Iacono, Sandro Batzella

Surgical treatment of primary chest wall sarcomas: experiences in 19 cases
amina abdelkbir (ben arous, Tunisia), Mahdi Abdennadher, Aymen Ben Ayed, Hazem Zribi, Sarra Zairi, Imen Bouassida, Mouna Milka, Imen Sahnoun, Sonia Ouergi, Adel Marghli

Intraoperative ventilation settings affect intraoperative fluid and vasopressor use in patients undergoing esophagectomy
Margaretha van der Woude (Heerlen, Netherlands), Robert Slappendel, Valerie Van Meegen, Nina Laeven, Pascal Thomas, Laura Bormans, Peter Spronk, Ary Serpa Neto, Marcus Schultz

Results of surgical treatment of patients with inflammatory pseudotumors of thoracic localization
Evgeni Zinchenko (Saint-Petersburg, Russian Federation), Vadim Pischik, Olga Maslak, Aleksander Kovalenko, Aleksander Obornev

Lung necrosectomy in pediatric patients with necrotizing pneumonia
Jose Alfredo Santibanez-Salgado (México D.F, Mexico), Francina Valeza Bolaños-Morales, Patricio Javier Santillán-Doherty, Israel Hernández-Ramírez

Development of the Diaphragmatic Paralysis Questionnaire (DPQ)
Sarah Schwarz (Köl, Germany), Nils Jurian Kosse, Wolfram Windisch, Aris Koryllos, Alberto Lopez, Stephan Strassmann, Denis Piras, Erich Stoeben

Investigation of biodegradable porous implants based on polylactide and polycaprolactone
Ruslan Tarasov (Moscow, Russian Federation), Elena Krasnikova, Vilayat Aliev, Georgiy Chitorelidze, Mamed Bagirov

Lung volume reduction surgery - an underutilised treatment?
Sayed Alderazi (Birmingham (West Midlands), United Kingdom), Simon Gompertz, Mohammed Ziaullah Khan, Anita Sullivan

Pre-congress content Session 207 00:00 - 23:59

E-poster session: Occupational lung diseases
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Public health, Epidemiology, Transplantation, Pulmonary function testing, General respiratory patient care, Endoscopy and interventional pulmonology, Imaging
Chairs: Maritta S. Jaakkola (Oulu, Finland), Mª Jesus Cruz Carmona (Barcelona, Spain)

Asthma-COPD overlap prevalence among employed adults, United States, 2014–2018
Jacek Mazurek (Morgantown, United States of America), Katelynn Dodd, Girija Syamlal

Occupation and subcategories of asthma: A population-based incident case-control study
Maritta S. Jaakkola (Oulu, Finland), Taina K. Lajunen, Behzad Heibati, Jouni J.K. Jaakkola

OCCUPATIONAL EXPOSURES AND INCIDENCE OF ASTHMA OVER TWO DECADES IN THE ECRHS
Sheikh Alif (Reservoir, Australia), Geza Benke, Hans Kromhout, Manolis Kogevinas, Deebie Jarvis, Nicole Le Moual, Vivi Schlünsens, Kjell Torén, Dan Norbäck, Theodore Lytras, Anne-Elie Carins, Michael Abramson, Josep Maria Antó, Cecilia Svan, Mario Livolier, Sandra Dorado-Arenas, Isabel Urrutia, Sofie Acke, Hayat Bentouhami, Gunilla Wieslander, Nicola Muria, Jesús Martinez-Moratalla, Bénédicte Leynaert, Katja Radon, Jessica Gerlich, Dennis Nowak, Simona Villani, Mathias Holm, Amar Mehta, Giuseppe Verlato, Angelo D’Errico, Johanna Feelgreen, Per Bekke, Trude Duelen Skorge, Torger Storaas, Anna Dahlin-Hoglund, Oistein Svan, Johan Hellgren, David Miedinger, Silvia Pascual, Torben Sigsgaard, Paul Blanc, Jan-Paul Zock

Maternal preconception exposure to cleaning agents and disinfectants and offspring asthma
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Consequences of asthma on occupational and socio-economic characteristics in the Constances cohort
Provost dorothée (Bordeaux, France), Delmas Marie-Christine, Chesneau Julie, Chérié-Challine Laurence, Golberg Marcel, Raherison Chantal, Ivatsubo Yuriko

Higher dyspnea score predicts antibiotic use in World Trade Center-exposed firefighters
Barbara Putman (Brooklyn, United States of America), Lies Lahousse, Rachel Zeig-Owens, David Prezant, Michael Weiden

Airborne occupational exposures and the incidence of airway obstruction in the Lifelines Cohort Study
Md Omar Faruque (Groningen (GR), Netherlands), Judith M Vonk, Ute Bülßmann, H Marike Boezen

Altered lung mechanics after coal mine fire smoke exposure in adults
Nicolette Holt (Mornington (VIC), Australia), Caroline Gao, Brigitte Borg, Kris Nilsen, David Brown, Jonathan Broder, Jillian Ikin, Annie Makar, Thomas Mc Crabb, Michael Abramson

Occupational risk factors for sarcoidosis in a multicenter case-control study
Denis Vinnikov (Almaty, Kazakhstan), Leonid Strizhakov, Tatsyana Rybina, Sergey Babanov, Vadim Smirnov, Siarhei Makhnach, Ina Hinko, Siarhei Vasilyeulski, Michail Browko, Liudmila Savich, Aliaksandra Rybina, Irina Mukatova, Marina Lebedeva

Lifetime occupational history and chronic obstructive pulmonary disease in a population-based study
Denis Vinnikov (Almaty, Kazakhstan), Zangir Tulekov, Aizhan Raushanova, Aizhan Kyzyayeva, Zhanna Romanova

Occupational exposure and new onset chronic bronchitis in a general population sample from Telemark County, Norway.
Anne Kristin Møller Fell (Skien, Norway), Nikola Zivadinovic, Geir Klepaker, Martin Veel Svendsen, Regine Abrahamson, Johny Kongerud, Paul D. Blanc, Kjell Torén

Can persulfates cause hypersensitivity pneumonitis? A report of specific inhalation challenge test in 42 hairdressers
Jens-Tore Granslo (Bergen, Norway), Jurunn Kirkeleit, Stein Håkon Låstad Lygre, William Horsnell, Thomas Blix Grydeland, Torger Storaas, Alexander Reyes-Lingjerde, Tor B Aasen, Cecilia Švanes
E-poster session: Occupational and environmental causes of respiratory disease

**Disease(s):** Interstitial lung diseases  Airway diseases

**Method(s):** General respiratory patient care  Epidemiology  Public health  Cell and molecular biology  Imaging  Pulmonary function testing  Physiology

**Chairs:** Gareth Walters (Birmingham (West Midlands), United Kingdom), Vivi Schlünssen (Århus C, Denmark)

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**3156**  No evidence electric charge increases inhaled ultrafine particle deposition in human lungs
Martyn Biddiscombe (London, United Kingdom), James Matthews, Matthew Wright, Sally Meah, Richard Underwood, Peter Barnes, Dudley Shallcross, Omar Usmani

**3157**  Modulation of transient receptor potential vanilloid-1 (TRPV1) by inhaled prostaglandin-E2 (PGE2) and bradykinin (BK) is associated with increased cough sensitivity to capsaicin (CPS) and autonomic dysregulation of cardiac rhythm in healthy subjects
Filippo Liviero (Padova (PD), Italy), Manuela Campisi, Paola Mason, Gabriella Guarnieri, Sofia Pavanello, Piero Maestrelli

**3158**  Diesel exhaust particles induction of allergic asthma to low doses of soybean
Miquel de Homdedeu Cortes (Barcelona, Spain), Maria Jesús Cruz, Silvia Sánchez Diez, Susana Gómez, Iñigo Ojanguren, Christian Romero, Xavier Muñoz

**3159**  Ozone and COPD: a systematic map of epidemiological and experimental studies
Tianyu Zhao (Munich, Germany), Iana Markevych , Christian Janßen , Dennis Nowak , Nadine Steckling-Muschack , Joachim Heinrich

**3160**  Pulmonary toxicity induced by electric charged soot particles in mice
Hsiao-Chi Chuang (Taipei, Taiwan), Ta-Chih Hsiao, Tzu-Ting Yang, Chi-Hong Lee

**3161**  A comparison of the cytotoxicity of different coals in lung epithelial cells
Anna Yeung (Sydney (NSW), Australia), Yingying Sun, Andrew Kinsela, Alen Faiz, Mehra Haghi, Brian Oliver, David Waite

**3162**  A comparison of 99mTc-DTPA clearance and translocation of nano particles in chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis.
Mikaela Ovarfordt (Huddinge, Sweden), Martin Anderson, Alejandro Sanchez-Crespo, Maria Diakopoulou, Magnus Svartengren

**3163**  Risk occupations of irritant-induced occupational asthma.
Irmeli Lindström (Helsinki, Finland), Jussi Lantto, Katri Suuronen, Hille Suojalehto, Kirsi Karvala

**3164**  In former asbestos-exposed workers TCT findings are more highly correlated to DLC0 than to vital capacity
Aleksandra Marita Preisser (Hamburg, Germany), Katja Schlemmer, Robert Herold, Azien Laqmani, Claudia Terschüren, Volker Harth

**3165**  Characteristics of patients evaluated in specialized post-asbestos exposure outpatient clinic
Carolina España Dominguez (Cádiz, Spain), Maria Morales González, Antonio Hidalgo Molina, Isabel Muñoz Ramírez, Alfonso Marín Andreu, Fernándo Romero Valero, Juan Antonio Córdoba Doña, Antonio León Jiménez
Respiratory symptoms and induced sputum abnormalities in fuel pump workers.
José Antônio Baddini Martinez (Ribeirão Preto (SP), Brazil), Tiago Henrique Silva, Ada Gastaldi, Marcel Koenigkam Santos, Bruno Spinosa Di Martinis

Interstitial Lung Disease (ILD) in aluminium welders
Johanna Feary (London, United Kingdom), Helen Parfrey, Sherwood Burge, Andrew G Nicholson, Anand Devaraj, Paul Cullinan

Association of selected risk factors which affect Chronic Obstructive Pulmonary Disease (COPD) among patients in the National Hospital for Respiratory Diseases (NHRD), Sri Lanka
Amitha Madushanti, Shanaka Jayasinghe, Tharaka Siriwardhana, Kaushalya Kumari, Chathurika Wirasagoda, Piyumi Weerawardhana, Varuna Navaratne

Occupational asthma and work-exacerbated asthma: do they differ in terms of endotype at diagnosis?
Paola Mason (Padova (PD), Italy), Diletta Arcidiacono, Aurora Ceccato, Gabriella Guarnieri, Piero Maestrelli, Filippo Liviero, Anna Chiara Frigo

Occupational exposure assessment to chromium using a job-exposure matrix based approach based on biomonitoring data
Zehra Nur Toreyin (Izmir, Turkey), Lode Godderis

Specific inhalation challenge test results in occupational and non-occupational asthma patients: Is monitoring peak expiratory flow rate sufficient for diagnosis?
Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Gülden Sari

Prevalence and correlates of asthma in Indian children and their parents: data from Global asthma Network
Nishtha Singh (Jaipur (Rajasthan), India), Sheetu Singh, Sundeept Salvi, Shally Awasthi, Nishtha Singh, Monica S Barne, Meenu Singh, Sabir Mohammad, Sanjay K Kocher, Sushil K Kabra, Sanjeev Sinha, Alok G Ghoshal, Tu Sukumaran, Mahesh Pa, Daya K Mangal, Virendra Singh

Late Breaking Abstract - Dry Powder Inhaler Preference in asthma patients. Results of the DPI PREFER Study
Diana Lucila Ramos Apolaya (Sevilla, Spain), Maria A. Romero Falcón, Juan F Medina Gallardo, Ana Gómez-Bastero Fernández, Francisco Alvarez Gutierrez, Julio Delgado Romero, Carlos Campos Sien, Paula Rytilä

Inhaler technique training of community pharmacists and common errors
Branislava Milenković (Beograd, Republic of Serbia), Masa Roganovic, Milena Kovacevic, Milica Culafic, Marija Jovanovic, Katarina Vucicevic, Sandra Vezmar Kovacevic, Branislava Miljkovic

Peak inspiratory flow measured at different inhaler resistances in patients with asthma
John Haughney (Glasgow, United Kingdom), Inna Pertsovskaya, Amanda J. Lee, Eddie McKnight, Michelle O’Driscoll, Omar S. Usmani

Bacterial colonization of home nebulizers used by children suffering from recurrent wheeze.
Navkiran (Zirakpur, India), Shivani Randev, Nidhi Singla

Comparing five antistatic valved holding chambers: how antistatic are they really?
Paul Hagedoorn (Groningen, Netherlands), Floris Grasmeijer, Wasiq Bawari, Henderik Willem Frijlink, Floris Grasmeijer

Improvement of QVAR delivery through a better sorting of drug particles: development of an innovative and easy-to-use spacer
Bastien Demouveaux (Valognes, France), Alison Vanlaeys, Thierry Porée

Long-term clinical effect of inhalation method with lowered tongue.
Rieko Kondo (Nagoya, Japan), Takahiko Horiguchi, Yuji Tohda

How to assess inhalation technique in patients with asthma and COPD - comparison of three different methods
Marta Miszczuk (Warszawa, Poland), Izabela Domagała, Marta Dąbrowska, Marta Maskey-Warzęchowska, Rafał Krenke

Patient centered development of a new valved holding chamber (VHC) designed specifically for on-the-go use
Jason Suggett (London (ON), Canada), Alison Ellery
Efficacy and safety of new formulation of fluticasone propionate/salmeterol delivered via a HFA pMDI inhaler in patients with asthma
Maciej Kupczyk (Lodz, Poland), Maciej Kupczyk, Pawel Majak, Piotr Kuna, Beata Asankowicz-Bargiel, Eliza Baranska, Rafal Dobek, Slawomir Garbic, Joanna Jerzyńska, Anna Latos, Wojciech Machowiak, Bernadetta Majorek-Olechowska, Anna Olech-Cudzik, Iwona Posiomkowska-Łesicka, Miroslawa Rulewicz-Warniello, Anna Swiderska, Michal Tarnowski, Przemysław Kopyto

Life Cycle Assessment (LCA) and Cradle-to-Grave (CTG) Carbon Footprint of a Multidose Reservoir Dry Powder Inhaler
Tari Haahtela (Helsinki, Finland), Kristian Borenius, Ville Vartiainen, Aino Takala, Jussi Haikaranen, Grace Parker, Noora Paronen

Assessment of inhalation technique and satisfaction with inhalers in asthmatic patients
Hana Blibech (Ariana, Tunisia), Donia Belkhir, Houda Snene, Asma Zaaafouri, Line Kaabi, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

In vitro fine particle dose of drug formulation used in asthma & COPD
Lois Slator (Southampton, United Kingdom), Dirk Von Hollen, Lucy E. A. Hardaker

The influence of inhalation flow and aerosol size on deposition: modelled vs. clinical data
Lianne C Tolboom (Hengelo, Netherlands), Wilbur De Kruijf, Frans H C De Jongh

Orally inhaled drug particle deposition efficiency in subjects with two-level laryngotracheal stenosis
Dennis Frank-Ito (Durham, NC, United States of America)

Assessment of inhalation technique in patients with bronchial asthma and chronic obstructive pulmonary disease
Natalia Trushenko (Moscow, Russian Federation), Anna Stoliarevichh, Boris Andryukov, Sergey Avdeev

Development of image processing-based smartphone App (Application Software) for self-management of inhaled medicines for patients with asthma or COPD
Yasuhiro Setoguchi (Tokyo, Japan), Yasunari Miyazaki, Yoshiki Nakayama, Len Matsuyama, Mari Ando, Seiji Matsuba, Masaki Uchida

Devise use errors among patients with asthma and COPD-A real-life study
Andriana Papaioannou (Vrilissia (Athens), Greece), Konstantinos Dimakou, Maria Kallieri, Stamatoula Tsikrika, Georgia Papadaki, Evgenia Papathanasiou, Anastasia Papaparfiriou, Vasiliki Apollonatou, Galateia Verykokou, Myrto Mplizou, Despina Papakosta, Efrosyni Manali, Spyridon Papiris, Stelios Loukides

**Pre-congress content**

**Session 210**

**00:00 - 23:59**

**E-poster session: Lung function diagnostics**

**Disease(s):** Airway diseases, Interstitial lung diseases

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

**Chairs:** Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

In-vitro and in-vivo validation of Cosmed Q-box system
Mart N. van der Plas (Monster, Netherlands), Frans H.C. De Jongh

The within session repeatability of body plethysmography parameters in patients with chronic pulmonary diseases
Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Elena Krasnikova, Olga Gordeeva, Natalya Karpina

Influence in outcome of the bodyplethysmography measurement performed with or without supporting cheeks and jaw.
Justine Wadners (Leusden, Netherlands), Jellien Makonga

Estimation of lung functional residual capacity by the multiple-breath washout test versus bodyplethysmography in healthy subjects
Galina Nekludova (Moscow, Russian Federation), Alexander Chemiak

Impulse oscilometry in the diagnosis of bronchoconstriction induced by acetylcholine inhalation
Elena Kokorina (Vsevolozhsk, Russian Federation), Larisa Kiryukhina, Nina Denisova, Natalia Nefedova, Sofia Kovaleva

Expiratory and inspiratory vital capacities and the ventilatory pattern severity
Raquel Barros (Lisboa, Portugal), Liliana Raposo, Nuno Moreira, Margarida Rocha, Paula Calaça, Ana Sofia Oliveira, Cristina Bárbara
Comparison of peak heart rate achievable using arm ergometry versus leg ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr

Comparison of oxygen uptake obtained using arm and leg cycle ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr

Comparison of anaerobic threshold obtained using arm and leg cycle ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr

Community respiratory diagnosis: It’s more than just spirometry
Ross Beech (Bury St Edmunds, United Kingdom), Luke Youngs, Matthew Rutter, Karl Sylvester

Is there an interest in modifying spirometric reference equations?
Nozha Ben Salah (Tunis, Tunisia), Houda Snen, Hana Blibeche, Domia Belkhiria, Lyne Kaabi, Asma Zaaffouri, Nadia Mehiri, Bechir Louzir

GLI is a better predictor of airway obstruction in young, asymptomatic patients with Marfan syndrome
Abigél Margit Kolonics-Farkas (Budapest, Hungary), Zsuzsanna Kovats, Aniko Bohacs, Balazs Odler, Kalman Benke, Benec Agg, Zoltan Szabolcs, Veronika Müller

Bronchodilator reversibility is associated with non-adherence to inhalers in stable asthma patients, without airflow limitation.
Daniel Schuermans (Bruxelles, Belgium), Shane Hanon, Eef Vanderhelst

Characterization of peripheral airway obstruction by pulmonary function parameters
Liliana Raposo (Queijas, Portugal), Ana Sofia Oliveira, João Valença, Cristina Bábara

Usefulness of physiological tests of small airways function in diagnosing asthma: a systematic review
Mohammed Almeshari (Birmingham, United Kingdom), Nowaf Alobaidi, Ross Edgar, James Stockley, Elizabeth Sapey

Diagnosis of small airways dysfunction in patients with asthma.
Olga Savushkina (Moscow, Russian Federation), Alexander Cherniak, Evgeniy Kryukov

Bronchodilator response in healthy subjects
Matthew Hegewald, Robert Jensen

Pre-congress content

Session 211 00:00 - 23:59

E-poster session: From respiratory physiology to clinical practice: exercise and respiratory muscles
Disease(s): Airway diseases  Sleep and breathing disorders
Method(s): Pulmonary function testing  Physiology  Pulmonary rehabilitation  General respiratory patient care  Epidemiology  Public health
Chairs: Michael Furian (Zürich, Switzerland), Gergely H. Fodor (Szeged, Hungary)

Actigraphy provides additional patient-centered outcome domains beyond those measured by survey questionnaires in COPD
Mehrdad Arjomandi (San Francisco, United States of America), Melissa Nishihama, Wendy Ching, Lemlem Woldemichael, Siyang Zeng, Warren Gold

Updated normative reference values for peak cardiopulmonary exercise test responses in adults 40 years and over
Hayley Lewithwaite (Montreal (QC), Canada), Andrea Benedetti, Michael K Stickland, Jean Bourbeau, Jordan A Guenette, Francois Maltais, Darcy D Marciniuk, J. Alberto Neder, Denis E O’Donnell, Benjamin M Smith, Wan C Tan, Dennis Jensen

Development of a prediction equation for maximal exercise capacity in normal Indian subjects
Rishabh Raj (Mumbai (Maharashtra), India), Uma Devaraj, Kavitha Venkatnarayana, Priya Ramachandran, Uma Maheshwari Krishnaswamy

Finding the best fitting reference values of VO2max in cardiopulmonary exercise testing
Mathijs Westra (Leeuwarden, Netherlands), Laurien Keulers, Jan Van Der Maten, Kim De Jong
Any role for cardiopulmonary exercise test as an outcome in severe asthmatic patients after the initiation of biological therapy?
Marcelina Koćwin (Łódź, Poland), Rocco F. Rinaldo, Elena Parazzini, Simone Luraschi, Silvia Ruggeri, Fausta Alfano, Mirta Cavallini, Pierfrancesco Longo, Piotr Kuna, Fabiano Di Marco, Stefano Centanni

Improved small airway function by benralizumab in patients with severe eosinophilic asthma
Tanya Badal (Camperdown, Australia), Nicola Reed, Leigh M Seccombe, Alice M Cottee, Cindy Thamrin, Gregory G King, Matthew J Peters, Claude S Farah

The impact of dyspnea on postural control in healthy subjects.
Olivier Van Hove (Bruxelles, Belgium), Vasileios Andrianopoulos, Ana Maria Cebolla, Dimitri Leduc, Véronique Feipel, Gaël Deboeck, Bruno Bonnechère

The influence of various inspiratory loads on reaction time in healthy subjects.
Olivier Van Hove (Bruxelles, Belgium), Vasileios Andrianopoulos, Ana Maria Cebolla, Dimitri Leduc, Véronique Feipel, Gaël Deboeck, Bruno Bonnechère

Non-invasive assessment of ribcage inspiratory muscle fatigue during two endurance tests in healthy subjects.
Guilherme Fregonezi (Rio Grande do Norte, Brazil), Thiago Bezerra Wanderley E Lima, Antonio Jose Sarmento Da Nobrega, Rayane Greyve Silva Vieira, Andrezza A. Viana, Esmivany Lhara Freitas Castro, Andrea Aliverti, Vanessa R Resquetti

Feasibility, muscle activity, contraction and relaxation proprieties of reverse sniff test in healthy subjects.
Guilherme Fregonezi (Rio Grande do Norte, Brazil), Jackson Claudio Lima, Maria Lira, Esmivani Lhara Freitas Castro, Vanessa R Resquetti

Neural respiratory drive, respiratory mechanics and breathlessness in COPD patients with comorbid heart failure.
Caroline Jolley (London, United Kingdom), Luis Estrada, Emily Lau, Manuel Lozano-Garcia, Anna Moore, Peter Cho, Hannah Fletcher, Abel Torres, Gerrard F Rafferty, John Moxham, Raimon Jane

Numerical simulation study of the effects of expiratory tracheal collapse is a two-dimensional (at least) problem
Emeline Fresnel (Bois-Guillaume, France), Jorys Achard, Adrien Kerfourn, François-Xavier Demoulin, Léa Razakamanantsoa, Christian Caillard, Antoine Cuvelier, Maxime Patout

What is the best marker of exercise limitation in patients with tracheobronchomalacia (TBM) ?
Léa Razakamanantsoa (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Bachar Chahine, Laurene Goument, Camille Germain, Julien Maris, Mathilde Le Brun, Jorys Achard, Tristan Bonneve, Francis-Edouard Gravier, Antoine Cuvelier, Maxime Patout

Diaphragm dysfunction in isoproterenol-induced heart failure
Ignacio Cabrera-Aguilera (Barcelona, Spain), Bryan Falcons, Ramon Ferré, Isaac Almendros, Nuria Farré

Comparative study of Max-IMT atherosclerosis index for COPD with and without asthma.
Akinori Ebihara (Tokyo, Japan), Asuka Nagai, Tokuzen Iwamoto, Ichiro Kuwahara

Effect of exercise training in intracellular cytokine and the relationship with clinical aspects in patients with COPD.
Juliana Uzeloto (Anhumas, Brazil), Alessandra Toledo-Arruda, Marjorie Golim, Bruna Silva, Aline Braz, Fabiano Lima, Isis Grigoletto, Ercy Ramos

Effect of high-intensity exercise on respiratory and peripheral muscle oxygenation in HF and COPD-HF patients.
Flavia Rossi Caruso (São Carlos (SP), Brazil), Cassia Luz Goulart, José Carlos Bonjorno Junior, Adriana Garcia Sanches Araújo, Renata Gonçalves Mendes, Audrey Borghi-Silva

Addition of functional exercises to conventional training in COPD: satisfaction and adherence.
Isis Grigoletto (Pirapozinho, São Paulo, Brazil), Fabiano De Lima, Juliana Souza Uzeloto, Dionei Ramos, Paulo Gomes, Carlos Augusto Camillo, Ercy Mara Cipulo Ramos

T-lymphocyte cytokines and the response to exercise training in patients with COPD.
Juliana Uzeloto (Anhumas, Brazil), Alessandra Toledo-Arruda, Marjorie Golim, Bruna Silva, Aline Braz, Fabiano Lima, Isis Grigoletto, Ercy Ramos
Elastic resistance training in people with COPD: a systematic review and meta-analysis
Fabiano Lima (Presidente Prudente (SP), Brazil), Vinicius Cavalheri, Bruna Silva, Isis Grigoletto, Juliana Uzeloto, Dionei Ramos, Carlos Augusto Camillo, Ercy Ramos

Comparisons of effects of high-flow and nasal cannula oxygen on exercise performance in patients with COPD
Yen-Huey Chen, Shiao-Lan Cheng, Huang-Pin Wu, Hui-Ling Lin

Influence of resistance training on heart rate variability in the difficult-to-control asthmatic patients.
Ivan Peres Costa (São Paulo, Brazil), Lawrence Patrick Cahalin, Henrique De Oliveira Galli, Priscila Sillis Da Silva, Angela Mendonça, Valquíria Almeida Straforini, Roberto Stirbulov, Luciana Maria Malosá Sampaio

Effects of quadriceps muscle strengthening on muscle endurance, functional capacity, dyspnea and quality of life in older patients with asthma
Elif Develi (istanbul, Turkey), Rasmi Mumander, Yasar Kucukardali

Effectiveness of a home-based pre-habilitation program for lung transplant candidates.
Tania Janaudis-Ferreira (Montréal (QC), Canada), Daniela Massierer, Nicholas Bourgeois, Agnes Rak, Karina Prevost, Larry Lands, Charles Poirier

The effect of pulmonary rehabilitation before bronchoscopic volume reduction on post-procedure clinical status and follow-up compliance
Esra Pehlivan (istanbul, Turkey), Demet Turan, Esra Yazar, Arif Balci, Erdoğan Çetinkaya

Outcomes in exercise-based interventions in interstitial lung diseases
Ana Oliveira (Hamilton, Canada), Razanne Habash, Alda Marques, Dina Brooks

Outcomes measures used in studies of exercise rehabilitation in pulmonary hypertension: a systematic review
Carol Keen (Sheffield (South Yorkshire), United Kingdom), Deborah Harrop, David G Kiely, Molly Hashmi-Greenwood, Karen Sage

Who is able to adhere to exercise during non-surgical treatment for lung cancer?
Lara Edbrooke (Melbourne (VIC), Australia), Linda Denehy, Catherine Granger

Aerobic and Weightlifting Training Improves Lung Function and Mechanics and Pulmonary and Systemic Immune Response in Overweight Women
Anamei Silva Reis (São José dos Campos, Brazil), Anamei Silva-Reis, A. R. Brandao-Rangel, Renison Moraes-Ferreira, Thiago G. Gibson-Alves, Victor H. Souza Palmeira, Helida C. Aquino-Santos, Claudio Ricardo Frison, Rodolfo P. Vieira

Physical Training Improves Lung Function and Mechanics and Pulmonary and Systemic Immune Response in Eutrophic Women
Anamei Silva Reis (São José dos Campos, Brazil), Anamei Silva-Reis, A. R. Brandao-Rangel, Renison Moraes-Ferreira, Thiago G. Gibson-Alves, Victor H. Souza Palmeira, Helida C. Aquino-Santos, Claudio R. Frison, Rodolfo P. Vieira

Resistance Training Alone Improves Lung Inflammation and Respiratory Muscle Strength but not Lung Function and Mechanics in Mid-Age Women
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Adriano A Da Silva, Daniel S F Magalhães, José C Cogo

Physical function in multimorbid elderly patients undergoing major surgery
Monique Messaggi Sartor (Barcelona, Spain), Ana Barberan-Garcia, Manuel Lopez-Baamonde, Betina Campero, Barbara Romano-Andron, Pilar Hurtado, Silvia Teres-Belles, Antonio Lopez, Raquel Sebio, Josep Roca, Graciela Martinez-Pall

Pre-congress content Session 213 00:00 - 23:59
E-poster session: COPD: inhaled corticosteroids, bronchodilators and eosinophils
Disease(s): Airway diseases, Respiratory critical care
Method(s): General respiratory patient care, Pulmonary function testing, Epidemiology, Public health, Cell and molecular biology
Chairs: Hye Yun Park (Seoul, Republic of Korea), Dimitrios Toumanakis (Athens, Greece)

Trends in primary outcome parameters for respiratory trials.
Robert Lins (Antwerpen, Belgium), Muriel Lins, Haiko Pillu, Bram Volckaert, Arash Ghalamkarpour, Katrien Timmermans

Effect of association with Indacaterol/Glycopirronium on Atrial Electromechanical Delay in patients with COPD and hyperinflation
Maria Rosaria Valentino (Napoli (NA), Italy), Alessandro Saglia, Maria D’Amato, Mauro Maniscalco, Pasquale Ambrosino, Matteo Conte, Vincenzo Russo, Antonio Molino
Revefenacin (REV) improves health status and dyspnea regardless of baseline symptom status in chronic obstructive pulmonary disease (COPD): a post hoc analysis of phase 3 trials
Glenn D. Crater (Raleigh, United States of America), Gary T. Ferguson, Thomas M. Siler, David A. Lombardi

Evaluation of the clinical efficacy of the fluticasone-salmeterol fixed dose combination (FDC) in Greek patients with Chronic Obstructive Pulmonary Disease-AELOS study
Ioanna-Laoutselnta Markou (Pikermi, Greece), Stavros Tryfon, Paschalis Steiropoulos, Alexandros Ginis, Aikaterini Athanassiou, Nikolaos Grekas

Comparison of a dry powder inhaler (DPI) to a pressurized metered-dose inhaler (pMDI) formulation of extra fine beclomethasone dipropionate/formoterol fumarate/glycopyrronium bromide (BDP/FF/GB) in patients with COPD: The TRI-D study.
Kai Michael Beeh (Wiesbaden, Germany), Piotr Kuna, Isabelle Viaud, Alessandro Guasconi, Massimo Corrada, George Georges

Role of inhaled corticosteroids on recurrent bronchial infection by potentially pathogenic bacteria in patients with COPD
Lluisa Ramon Clar (Palma, Spain), Francisco Javier Verdu Rivera, Nuria Toledo Pons, Amanda Iglesias Coma, Carlos Juan Nicolau, Carla Luisa Causape, Pablo A Fraile Ribot, Antonio Oliver, Francisco De Borja Garcia Cosio

The distribution of blood eosinophil count in the IMPACT South America population
Jose R Jardim (São Paulo, Brazil), Valentina Di Boscio, Guri Y Levy, Alejandro Raimondi, Adrian Lijavetzky, Laura Jotimiansky, Sally Kilbride, Claudia Soares, David Lipson

Stability of eosinophils in blood with chronic obstructive pulmonary disease (COPD) and one hospital admission
Elena Garay Llorente (Barakaldo, Spain), Eva Tabernero Huguet, Beatriz Gonzalez Quero, Laura Andia Iruarte, Borja Ortiz De Urbina Antia, Milagros Iriberti Pascual, Patricia Sobradillo Ercanaro

Stability of sputum and blood eosinophil levels in COPD
Augusta Beech (Manchester, United Kingdom), Simon Lea, Umme Kolsum, Natalie Jackson, Paul Hitchen, Sophie Woloszynka, Dave Singh

The impact of eosinophil levels on current prescribing in COPD
Louise Ann Flint (Leeds, United Kingdom), Doychin Dimov

Burden of disease among exacerbating patients with eosinophil COPD treated with triple therapy in Spain
Esther Mariscal (Madrid, Spain), Marc Miravitlles, Guadalupe Sánchez, Andrea García, Maribel Cuesta, Estefany Uria, Bernardino Alcázar, Francisco García-Rio

Microbiome Use to Stratify Inhaled Corticosteroids in Chronic Obstructive Pulmonary Disease (MUSIC) trial: baseline data and impact of inhaled corticosteroid withdrawal in severe COPD with frequent exacerbations
Hollian Richardson (Dundee, United Kingdom), Clare Clarke, Mike Lonergan, Heather Barclay, Megan Crichton, Jennifer Pollock, Simon Finch, Pauline Billingham, Furrah Hussain, Andrew Mackenzie, Diane Cassidy, Margaret Band, Andrew Smith, Mohammad Paracha, Gourab Chowdhury, Devesh Dhasmana, Rekha Chaudhuri, Philip M Short, Holly R Keir, Alison J Dicker, James D. Chalmers

Pre-congress content Session 214 00:00 - 23:59
E-poster session: Organising respiratory disease management in primary care
Disease(s): Airway diseases, Pulmonary vascular diseases
Method(s): General respiratory patient care, Pulmonary function testing, Public health, Epidemiology, Palliative care, Pulmonary rehabilitation
Chairs: Claudia Vincente (Coimbra, Portugal), Luke Daines (Edinburgh (Edinburgh), United Kingdom)

Evidence-implementation gaps in low- and middle-income countries’ COPD guidelines
Job F.M. van Boven (Groningen, Netherlands), Aizhamal Tabayshova, John R Hurst, Joan B. Soriano, William Checkley, Erick Wan-Chun Huang, Antigona C. Trofore, Oscar Flores Flores, Patricia Alupo, Gonzalo Gianella, Tarana Ferdous, David Mehard, Jennifer Alison, Jaime Correia De Sousa, Maarten J. Postma, Niels H. Chavannes

SWAAS - The first state level public health program for COPD and Asthma in India - an early evaluation>
Sanjeev Nair (Trivandrum (Kerala), India), M S Manu, R Kamala, Soumya Gopakumar, Mathew Valamparambil, Bipin Gopal

COPD integrated disease management, from controlled trial to real-world primary care; a cohort study.
Anna Hussey (Windsor, Canada), Kevin Wing, Madonna Ferrone, Christopher Licskai
Barriers and motivators to use eHealth in primary care asthma and COPD patients according to health care professionals
Esther I. Metting (Groningen, Netherlands), Claudine Dobelaar

Primary care management of asthma in Malaysia: findings of the Klang Asthma Cohort Study
Norita Hussein (Kuala Lumpur, Malaysia), Norita Hussein, Su May Liew, Nik Sherina Hanafi, Ahmad Ihsan Abu Bakar, Ee Ming Khoo, Hilary Pinnock, Yong Ke Keng, Asiah Kassim, Ping Yein Lee, Nazlina Shariff Ghazali, Ai Theng Cheong, Azainorsuzila Mohd Ahad, Rizawati Ramli, Izan Ishak, Bee Kiu Ho, Salmiah Mohd Isa, Harzana Harrun, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Chiu Wan Ng, Karunah Chinn

What motivates primary healthcare practitioners to refer patients with Chronic Obstructive Pulmonary Disease (COPD) to Pulmonary Rehabilitation? A survey using the Theoretical Domains Framework.
Jane Watson (Cambridge (Cambridgeshire), United Kingdom), Rachel Jordan, Peymane Adab, Alex Enocson, Sheila Greenfield, Ivo Vlaey

Methodological insights from pre-pilot phases of two complex respiratory interventions (IMP2ART; TANDEM)
Liz Steed (London, United Kingdom), Kirstie McClatchey, Susan Morrow, Ratna Sohanpal, Stephanie Taylor, Hilary Pinnock,

Tackling COPD misdiagnosis in primary care through integrated care
Ketan Patel (Colchester, United Kingdom), Andy Dickens, Alice M Turner

Planned primary health care asthma contacts during 12-year follow-up after Finnish National Asthma Programme: focus on spirometry
Jaana Takala (Seinäjoki, Finland), Pinja Ilmarinen, Leena Tuomisto, Iida Vähätalo, Onni Niemelä, Hannu Kankaanranta

Exploring the provision of supportive care for patients with severe, life-limiting COPD in Malaysia
Su May Liew (Kuala Lumpur, Malaysia), Ee Ming Khoo, Hilary Pinnock, Sylvia McCarthey, Zee Nee Lim, Yong Ke Keng, Nik Sherina Hanafi, Norita Hussein, Ahmad Ihsan Abu Bakar, Aziz Sheikh

QUALITY OF LIFE OF PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND THEIR CAREGIVERS
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez-Hernández, Laura Arely Martinez-Bautista, Arturo Orea-Tajeda, Karen Santillán-Reyes, Guadalupe Lizzbett Luna-Rodriguez, Martha Elena Quintero Martinez

Non-participant observation of medical screening for Malaysian Hajj pilgrims with asthma
Ahmad Ihsan Abu Bakar (Kuala Lumpur, Malaysia), Su May Liew, Ee Ming Khoo, Nik Sherina Hanafi, Norita Hussein, Ping Yein Lee, Nazlina Shariff Ghazali, Ai Theng Cheong, Suhazeli Abdullah, Azah Abdul Samad, Rizawati Ramli, Azainorsuzila Mohd Ahad, Hilary Pinnock, Sheikh Aziz

Impact of guideline awareness on the counseling of patients with acute cough among general practitioners and pharmacy personnel
Ulrike Sent (Frankfurt, Germany), Ulrike Sent, Guido Bissmann, Peter Kardos, Kai Michael Beeth

Respiratory Improvement programme: COPD reviews in Primary Care by Physician Associates
Sarah Sibley (Altrincham (Cheshire), United Kingdom), Emma Rickards, Dennis Wat, Cenk Alhan, Xi Chen, Laura Pilling, Hannah Sefton, Kate Mottershead, Sonika Jalota, Hannah Alderson

Chronic cough in routine clinical practice: a UK retrospective cohort study
James H. Hull (London, United Kingdom), Zia Ul-Haq, Haya Langerman, Tahereh Kamalati, Amazigom Mayes, Amanda Lucas, Mark L. Levy

Recognition and management of chronic wet cough in Aboriginal children: a knowledge translation approach
Pamela Laird (Perth, Australia), Mary Lane, Roz Walker, James Totterdell, Anne Chang, André Schultz

Long-term condition (LTC) review templates in clinical consultations: A mixed-methods systematic review
Kirstie McClatchey (Edinburgh, United Kingdom), Mary Morrissey, Elizabeth Shepherd, Emma Kinley, Hilary Pinnock

COPD diagnosis and treatment in the primary care setting: adherence to GOLD guidelines is far away
Ioanna Tsiaprou (Thessaloniki, Greece), Dionisios G. Spyropatos, Diamantis Chloras, Dionisia Michalopoulou, Konstantinos Christoglou, Lazaros Sichletidis

Selection of patients with chronic obstructive pulmonary disease for participation in self-management programs.
Lidiya Koukol (St. Petersburg, Russian Federation)

Major global discrepancies in guidelines for sore throat (acute pharyngitis)
Graca Coutinho (Slough, United Kingdom), Graca Coutinho, Martin Duerten, Aurelio Sessa, Attila Altenr, Sergio Caretta-Barradas
E-poster session: Investigations of COPD

**Disease(s):** Airway diseases, Interstitial lung diseases

**Method(s):** Pulmonary function testing, Imaging, Physiology, Cell and molecular biology, General respiratory patient care, Epidemiology, Public health

**Chairs:** Franziska Trudzinski (Homburg (Saar), Germany), James Fingleton (Wellington, New Zealand)

**3274** Late Breaking Abstract - Differences in forced oscillation measurements in different ventilatory defects
Sabina Kostorz-Nosal (Tarnowskie Gory, Poland), Dariusz Jastrzębski, Dariusz Ziora

**3275** Automated volumetric quantification of lung emphysema: comparative analysis of different software products results.
Nadezda Griva (Saint-Petersburg, Russian Federation), Pavel Gavrilov

**3276** Triple therapy with Fluticasone furoate/Umeclidinium/Vilanterol compared with dual bronchodilation or triple therapy with inhaled corticosteroids/dual bronchodilation in patients with chronic obstructive pulmonary disease
Naoko Harada (Kawasaki, Japan), Kengo Otsuka, Atsuo Horiuchi, Yoko Shinka, Hiroyuki Yamamura, Naoki Miyao

**3277** The clinical characteristics of eosinophilic chronic obstructive pulmonary disease: A cohort study
Ying Ju Lin (Yunlin County, Taiwan), Shu-Hua Chang, Yen-Fu Chen

**3278** The clinical importance of centrilobular emphysema in COPD patients: its impact on the BODE index.
Rosa Plana Bolba (Ileíd, Spain), Anna Montcusi Moix, Sally Santistevé, Juan Pablo De Torres Tajes, Ferran Barbe Illa, Jessica González Gutiérrez

**3279** The differences between Helium Dilution and Body Plethysmography and its relationship with airway resistance
Michela D’Ascanio (Roma (RM), Italy), Fausta Viccaro, Noemi Calabro, Dario Pizzirusso, Giulio Guarneri, Claudia Salvucci, Alberto Ricci

**3280** The role of neutrophil/lymphocyte ratio in acute exacerbations of chronic obstructive pulmonary disease COPD
Bogdana Basina (Dnipropetrovsk, Ukraine), Ludmila Konopkina

**3281** Sputum rheology and bacteriology in stable and exacerbated chronic obstructive pulmonary disease
Wei-Chih Chen (Taipei, Taiwan), Desiree Schumann, Michael Tamm, Daiana Stolz

**3282** Relationship between serum levels of testosterone and the severity of chronic obstructive pulmonary disease
Azza Slim (Tunis, Tunisia), Abir Hedhli, Meriem Mjid, Yassine Ouahchi, Sana Cheikh Rouhou, Jouda Cherif, Sonia Toujani, Samira Merai

**3283** Prognostic markers of COPD patients followed by 10 years in a specialized center in Brazil.
Julia Fortes Crê (Cotia, Brazil), Ana Carolina Borges Amaral, Luis Otavio Buassali Fredini, Leonardo Polito Bianchini, Soraia Quaranta Damião, Ana Julia Consoli Alvarez, Guilherme Meira Sacardo, Elie Fiss, Monica Silveira Lapa

**3284** Prediction of vascular-platelet hemostasis disorders in patients with chronic obstructive pulmonary disease (COPD)
Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Yuliia Huba, Viktoriia Yakovlieva

**3285** Radiological prevalence of emphysema on low dose computed tomography (L D C T) in ever-smokers with a normal spirometry
Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Aditi Joshi, Reyna Raju, Ashok Mahashur

**3286** The Extended Salford Lung Study: an EHR-based extension of the SLS trials
Jeanne Pimenta (Middlesex, United Kingdom), Wilhelmine Meeraus, Richard Yeatman, Alan Barth, Tanith Hjelmbjerg, Jamila Astron, Loretta Jacques, Sheila Mccorkindale, Mark Fry

**3287** Low level of serum free triiodothyronine can be a predictor of long-term mortality after COPD exacerbations
Paulina Laskowska (Łódź, Poland), Joanna Milksowa - Dymanowska, Piotr Łacwik, Sebastian Majewski, Pawel Görski, Wojciech J. Piotrowski, Adam J. Bialas

**3288** Prevalence of infradiagnosis of COPD in women by screening with a portable COPD-6 device in Primary Care
Miguel Santibañez (Santander (Cantabria), Spain), Juan Carlos Lopez Caro, Estibaliz Arroita, Jesus Sainz, Francisca Gomez, Pablo Gonzalez, Nicanor Valle, Mariano Rodriguez, Margarita Hierro, M Concepcion Astra, Montse Gonzalez, Juan Luis Garcia-Rivero

**3289** Benralizumab effectiveness on quality of life of severe eosinophilic asthmatics in real life
Carla Maria Irene Guarato (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Mariapia Venuiti, Santamaria Sonia, Fusolo Paolo, Maria Cristina Colanardi, Giovanna Elisiana Carpagnano, Maria Pia Foschino Barbaro

**3290** TLCO is associated with phenomenological ageing markers in COPD patients of the COSYCONET cohort
Stefan Karrasch (Munich, Germany), Veronika Graf, Angelika Kronseder, Tanja Lucke, Rudolf A. Joerres
Pre-congress content

Session 216  00:00 - 23:59

Late Breaking Abstract - Inhaled corticosteroids in bronchiectasis is associated to increased morbidity, Pseudomonas colonization and mortality - a five-year prospective cohort study
Kjell Erik Julius Håkansson (København N, Denmark), Katrine Fjaellegaard, Andrea Brovatzki, Melda Sin, Charlotte Suppli Ulriksen

Late Breaking Abstract - Anti-inflammatory and anti-fibrotic effect of novel, pan-PDE inhibitors in human bronchial epithelial cells
Katarzyna Wójcik-Pszczoła (Kraków, Poland), Bogdan Jakiela, Hanna Plutecka, Agnieszka Jankowska, Marietta Ślusarczyk, Grażyna Chłon-Rzępa, Krzysztof Pociecha, Artur Świerczek, Elżbieta Wyska, Paulina Koczurkiewicz-Adamczyk, Elżbieta Pękala, Reinoud Gosens

Late Breaking Abstract - Add-on mepolizumab for chronic rhinosinusitis with nasal polyps: SYNAPSE study

Safety, pharmacokinetics and pharmacodynamics of BI 1323495 in healthy males
Michael Desch (Biberach, Germany), Regina Sennewald, Anastasia Eleftheraki, Harald Köglér, Claudia Diefenbach

Arrhythmogenic and chronotropic effects of bronchodilator drugs on human cardiomyocytes
Martin Scurek (Brno, Czech Republic), Martin Pešl, Jan Přibyl, Simon Klimovič, Tomáš Urban, Šárka Jelímková, Vladimír Rotrekli, Kristián Brat

Transient receptor potential vanilloid 4 channels mediate resistive breathing-induced acute lung injury.
Dimitrios Tournapanakis (Athens, Greece), Athanasia Chatzianastasiou, Veya Vassilakopoulou, Eleftheria Mizi, Stamatis Theocharis, Theodoros Vassilakopoulos

Resolvins E1 and E3 dampens asthmatic inflammation in a murine model
Makiko Sato (Gunma, Japan), Haruka Aoki-Saito, Masakiyo Yamato, Hiroaki Tsurumaki, Yasuhiro Koga, Noriaki Sunaga, Tosihata Maeno, Kunio Dobashi, Satoshi Shuto, Masatake Yamada, Takeda Hisada

Characterisation of type two immune responses in a murine model of allergic airway disease
Nadja Kobold (London, United Kingdom), Bilel Dekkak, Pauline Flajolet, Dhiren Patel, Rober Snelgrove, Maria Belvisi, Mark Birrell

Evaluating a C D63 assay as a biomarker for SYK inhibitor activity
David Lamb (Biberach an der Riss, Germany), Katherina Sewald, Ewald Benediktus, Armin Braun

Profiling the impact of two JAK inhibitors in a pre-clinical model of allergic asthma
James Pinkerton (New Lambton Heights (NSW), Australia), Bilel Dekkak, Dimitrios Zervas, Thomas Markou, Annika Borde, Anders Cavallin, Therese Ericsson, Ramon Hendriks, Ann Aurell Holmberg, John Steele, Maria Belvisi, Mark Birrell

In vitro and in vivo characterisation of the novel neutrophil elastase inhibitor BI 1323495
Stefan Kreideweiss (Biberach, Germany), Annette Schuler-Metz, Christian Gnam, Stefan Peters, Thorsten Oost

Long-acting bronchodilators improve lipopolysaccharide-induced swine airway hypersecretion as well as the abnormal acidification in pH
Hidemi Aritake (Sendai, Japan), Tsutomu Tamada, Koji Murakami, Shunichi Gamo, Masayuki Nara, Hisatoshi Sugiura, Masakazu Ichinose

Beclomethasone, formoterol and glycopyrronium: effect on an ex vivo model of COPD exacerbation
Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Riondo, Francesco Cavalli, Matteo Matino, Mario Cazzola, Paola Rogliani
Plant protease inhibitors compared to corticosteroids in mice with Asthma-COPD
Edna Leick (Praia Grande, Brazil), Juliana Morelli Lopes Gonçalves João, Jessica Anastácia Silva Barbosa, Luana Laura Sales Da Silva, Tabata Maruyma Dos Santos, Leandr Do Nascimento Camargo, Elaine Cristina De Campos, Thiago Tafarel Galil, Beatriz Mangueira Saraiva- Romanhlo, Suellen Karolíne Moreira Bezerra, Sara Sumite Sobral Hamaguchi, Milton De Arruda Martins, Maria Luiza Vilela Olivo, Renato Fraga Righetti, Iolanda De Fatima Lopes Calvo Tibério

The effects of Nrf2 activators and oxidative stress on COPD alveolar macrophages
Simon Lea (Manchester (Greater Manchester), United Kingdom), Jian Li, James Baker, Clare Murray, Nicky Cooper, Cathy Lucas, Craig Fox, Dave Singh

Glucocorticoid-induced adrenal suppression and metabolic syndrome in glucocorticoid treated AECOPD patients related to different gene polymorphisms of the glucocorticoid receptor gene
Pradeesh Sivapalan (Hellerup, Denmark), Stina W. Borresen, Josefin Eklöf, Marianne Klose, Torgny Wilcke, Ulla Feldt-Rasmussen, Maria Rossing, Freja S. Holm, Rasmus L. Marvig, Niklas R. Jørgensen, Niels Seershom, Theresia S. Eriksen, Jørgen Vestbo, Jens-Ulrik Jensen

Pre-congress content
Session 217 00:00 - 23:59
E-poster session: Monitoring of inflammation in remodelling
Disease(s) : Airway diseases
Method(s) : General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Epidemiology, Physiology
Chairs : Stylianos Loukides (Athens, Greece), Antonio Spanevello (Milan, Italy)

Late Breaking Abstract - Biological determinants of sputum rheology in chronic airway diseases
Jérémy Charriot (Montpellier Cedex 5, France), Mathilde Volpato, Jérôme Vialaret, Christophe Hirtz, Carey Suehs, Eric Matzner-Lober, Isabelle Vacheri, Nicolas Molinari, Arnaud Bourdin

Exogenous HSP60 stimulates airway smooth muscle cell remodeling via MAPK p38 pathway
Junling Li (Basel, Switzerland), Lei Fang, Daiana Stolz, Michael Tamm, Michael Roth

A dipoxine mediators in asthma and COPD are affected by sex and age
Lars I. Andersson (Stockholm, Sweden), Anna James, Sven-Erik Dahlen, Apostolos Bossios, On Behalf Of The Bioair Consortium

Correlation of serum Matrix metalloproteinase-9 and clinico-functional parameters in COPD patients
Sanja Dimic-Janjac (Beograd, Republic of Serbia), Bransilava Milenkovic, Mihailo Stjepanovic, On Behalf Of The Bioair Consortium

Endothelial injury in COPD assessed by microalbuminuria (MAB) and von Willebrand factor levels (vWF f:Ag) and activity (vWF f:Ac)
Athanasios Konstantinidis (Ioannina, Greece), Cristos Chronis, Christos Kyriakopoulos, Evaggelia Papapetrou, Christina Tsouis, Athina Tatsioni, Athina Gogali, Christos Katsanos, Katerina Vaggeli, Vanesa Bellou, Maria Kosta, Aggeliki Spanou, Charikleia Tselepi, Alexandros Charisios, Georgios Daskalopoulos, Stavros Constantopoulos, Konstantinos Kostikas

Establishing normal ranges for induced sputum cell counts in Singapore
Yu Ling Ng (Singapore, Singapore), Tunn Ren Tay, Mariko Siyue Koh, Xue Ning Choo, Anthony Yip

How different operators performing sputum eosinophil differential cell counts may affect clinical decisions for severe asthma patients.
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Phillipa Aspin, Stephen J Fowler, David Allen, Robert Niven

Eosinophil-derived neurotoxin concentrations indicate lower circadian variation than eosinophils in healthy volunteers and patients with asthma
Simon Young (Baddiley, United Kingdom), Farhat Syed, Nisha Kurian, Bert Rutten, Rikard Isaksson, Adam Platt, Glen Hughes

Comparison of demographic, functional and inflammatory features between atopic and non atopic asthmatics. Retrospective study on a large cohort of patients.
Sara Gerday (Liège, Belgium), Florence Schleich, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis

Streptococcus pneumoniae augments inflammatory process in asthma model without changing Th2 profile
CLARICE ROSA OLIVO (SÃO PAULO, Brazil), Roseane M. Laia, Thamyres B.P Castro, Camila A. Santos, Beatriz M. Saraiva-Romanhlo, Maria Leonor S. Oliveira, Eliane N. Miyagi, Iolanda F.C.L. Tiberio

Correlation between Blood Eosinophilia and Fractional Exhaled Nitric Oxide in the diagnosis of Asthma within Primary Care.
Lesley Farrell (, United Kingdom), Sudip Ghosh, Gailash Panray
The association between airway and systemic eosinophilia and symptoms and exacerbations differ between asthma and COPD patients
Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Uffe Bødtger, Kerstin Romberg, Leif Bjørner, Jonas Erjefält, Karsten Kristiansen

Lower muscle mass is related to poorer clinical outcomes in moderate to severe asthma
Edith Visser (Leeuwarden, Netherlands), Ari-Jan Azad, Tim Van Zutphen, Huib Kerstjens, Anneke Ten Brinke, Kim De Jong

Distribution of T2 markers in real-life patients with asthma, COPD and asthma+COPD from the BREATHE study
Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Laurits Frossing, Alexander Silberbrandt, Uffe Bødtger, Kerstin Romberg, Leif Bjørner, Jonas Erjefält, Karsten Kristiansen

Relationship between clinical and radiological signs of bronchiectasis in COPD patients: Results from COSYCONET
Kathrin Kahnert (München, Germany), Rudolf Jörres, Hans-Ulrich Kauczor, Bertram Jobst, Jürgen Biederer, Frank Bierzc, Peter Alter, Jürgen Behr, Pontus Mertsch, Franziska Trudzinski, Robert Bals, Tanja Lutke, Henrik Watz, Claus Vogelmeier, Tobias Welte

Genotyping and phenotyping of alpha1-antitrypsin deficiency Greek patients under augmentation therapy: a multicenter study

Polymorphisms for epoxide hydrolase, glutathione transferase and genetic susceptibility to COPD
Ariuntungalag Tumurbaatar (Ulaanbaatar, Mongolia), Ichinnorov Dashtseren, Sarantuya Jav, Chimedlkhamsuren Ganbold

Acute exacerbations of chronic obstructive pulmonary disease: current recommendations review and quality of evidence analysis.
Jordi Rello (Barcelona, Spain), Sofia Tejada, João Ferreira-Coimbra, Miguel Gallego, Candela Solé-Lleonart, Antonio Anzueto

Pre-congress content Session 218 00:00 - 23:59
E-poster session: New investigations of bronchiectasis and non-tuberculous mycobacteria

Salivary SLPI and disease severity in bronchiectasis
Lídia Perea Soriano (Barcelona (CT), Spain), Elisabet Cantó, Jordi Giner, Stefano Aliberti, James D Chalmers, Silvia Vidal, Oriol Sibila

Proteinase-3 as a biomarker of exacerbations in bronchiectasis.
Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Yonghua Gao, Hollian Richardson, Holly Keir, Alison Dicker, Kelly Moffitt, Amelia Shoemark, James Chalmers

Bronchiectasis: prevalence of asthma diagnosis and asthma-associated factors
Tjeerd van der Veer (Amsterdam, Netherlands), Marion Bakker, Lieke Kamphuis, Alain Vincent François Dubois, Rogier A S Hoek, Joachim G J V Aerts, Menno Van Der Eerden

Alpha-1 antitrypsin deficiency in patients with bronchiectasis: data from the E uropean Bronchiectasis Registry EM BARC
Michael Loebinger (London, United Kingdom), Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre-Regis Burgel, Felix Ringshausen, Marion Trautmann, Angela Davis, Anthony De Soya, Michal Shteinberg, Amelia Shoemark, Josje Altenburg, James D Chalmers, Montserrat Vendrell, Eva Polverino, Sabina Skrgat, Menno Van Der Eerden, Wim Boersma, Oriol Sibila, Melissa Medonnel, Luiz Maiz, Paula Kaupp, Victor Botnaru, Eva van Braeckel, Natalie Lorent, Jessica Rademacher, Charles Haworth, Katerina Dimakou, Antoni Torres, Tobias Welte, Stuart Elborn, Pieter Goeminne

Factors associated with one-year mortality in hospitalized patients with exacerbation of bronchiectasis.
Giulia Scioscia (Lucera (FG), Italy), Rosanel Amaro, Victoria Alcaraz-Serrano, Albert Gabarrus, Laia Fernandez-Barat, Patricia Oscanoa Huaman, Rosario Menendez, Raul Mendez, Maria Pia Foschino Barbado, Antoni Torres
Heterogeneity of treatment response in bronchiectasis clinical trials
Oriol Sibila Vidal (Barcelona, Spain), Elena Laserna, Amelia Shoemark, Diana Bilton, Megan L Crichton, Anthony De Soya, Wimbledon Boerma, Josie Altenburg, James D Chalmers

Results of Tobramycin inhalation therapy in patients with noncystic fibrosis bronchiectasis with Pseudomonas Aeruginosa colonisation: Real Life Management
Elif Tanriverdi (Istanbul, Turkey), Binnaz Zeynep Yildirim, Sule Gul, Efsun Gonca Ugru Chousein, Demet Turan, Halit Cinarka, Mehmet Akif Ozgul, Erdogan Cetinkaya

Sex related differences in aetiology, severity and quality of life in bronchiectasis: data from the EMBARC, EMBARC-India and Australian bronchiectasis registries

Placebo effects in pharmaceutical clinical trials in bronchiectasis: an EMBARC study

Evaluation of Neutrophil to Lymphocyte Ratio (NLR) in bronchiectasis exacerbation.
Vasiliki Georgakopoulou (Athens, Greece), Konstantinos Mantzouranis, Despina Melemeni, Georgios Petsinis, Dimitrios Mermigkas, Agathi Lekkakou, Evgenia Karakou, Rea Chatzikyriakou, Nikolas Trakas, Xanthi Tsiafaki

What's important for people with NTM? An EMBARC-ELF patient survey
Michal Shiteinberg (Haifa, Israel), Jeanette Boyd, Bridgette Harris, Pieter Goeminne, Amelia Shoemark, Josie Altenburg, Thomas Ruddy, Tobias Welte, Francesco Blasi, Barbara Crossley, Stefano Aliberti, Ernie Lloyd, Eva Polverino, James Chalmers

Clinical outcome of multiple nontuberculous mycobacteria infection among people with bronchiectasis in Taiwan: a cohort study
Hung Yu Huang (Taipei, Taiwan), Chun-Yu Lin, Yu-Tung Huang, Chih-Hsin Yeh, Chun-Hua Wang, Horng-Chyuan Lin

The level of MDA in BALF might reflect oxidative tissue damage in patients with mild MAC pulmonary disease.

The difference of airway microbiota between nontuberculous mycobacteria lung disease and bronchiectasis
Chin-Chung Shu (Taipei, Taiwan)

Non-tuberculous mycobacteria: five year experience
Mariana Conceição (Covilhã, Portugal), Angela Dias Cunha, Rita Ferro, Sônia Guerra, Joana Batista Correia, António Reis, António Simões Torres

Pre-congress content

E-poster session: Translational therapeutic advances
Pre-congress session 219 00:00 - 23:59
Disease(s): Interstitial lung diseases, Airway diseases, Respiratory critical care, Pulmonary vascular diseases
Method(s): Cell and molecular biology, General respiratory patient care, Respiratory intensive care
Chairs: Pieter S. Hiemstra (Leiden, Netherlands), Manuela Platé (London, United Kingdom)

Late Breaking Abstract - Mapping fibroblast activity in IPF - the instructive lung ECM
Anna Löfdahl (Lund, Sweden), Linda Elowsson Rendin, Xiao-Hong Zhou, Göran Dellgren, Martin Silverborn, Leif Bjerner, Gunilla Westergren-Thorsson
Late Breaking Abstract - Copper-heparin counteracts elastase-induced emphysema formation
Rob Janssen (Nijmegen, Netherlands), Ianthe Piscarre, Loes E.M. Kistemaker, Reinoud Gossens, Frits M.H. Franssen, Emiel F.M. Wouters, Hendrik W. Frijlink

Modelling alveoli on a breathing lung-on-chip in health and disease
Clémentine Richter (Saarbrücken, Germany), Alberto Hidalgo, Patrick Carius, Nuria Roldan, Janick Stucki, Nina Hobi, Nicole Schneider-Daum, Calus-Michael Lehr

Modelling alveolar barrier disruption in vitro for sepsis-induced ARDS preclinical studies
Nuria Roldan (Bern, Switzerland), Giulia Raggi, Kleanthis Fytianos, Jessica Petraccia, Janick Stucki, Fabian Käsermann, Nina Hobi

Combined cell therapy and anticoagulants for acute respiratory distress syndrome
Marta Campriut-Rimbhas (Molins de Rei, Spain), Aina Areny, Raquel Guillamat-Prats, Luis Morales-Quinteros, Neus Tantinyà, Josep Bringué, Lluis Blanch, Antonio Artigas

LSC - 2020 - pSTAT5-SOCS1 signalling as a novel pathway in macrophage metabolic reprogramming by mesenchymal Stromal Cells (MSCs) in ARDS
Yue Su (Northern Ireland, United Kingdom)

Intratracheal application of healthy lung derived Mesenchymal Stem Cells (DON-MSC) in the form of biospheres (BS) as potential therapeutic agents for chronic lung disease
Andreas Jahn (Palma De Mallorca, Spain), Carlos Rio, Aina Martin-Medina, Amanda Iglesias Coma, Josep Mercader Barceló, Orlando Gigirey, Christina Villena, Ernest Sala Linaus

CCR2: A potential target for lung injury resolution
Andres Felipe Villabona-Rueda (Baltimore, United States of America), Qiong Zhong, Ye Xiong, Tsvi Palmer, Franco D’Alessio

Azithromycin maintains barrier integrity in a cell model of ventilator induced lung injury
Jon Joelsson (Garðabær, Iceland), Iwona Myszor, Snaevar Sigurdsson, Fredrik Lehmann, Clive Page, Gudmundur Gudmundsson, Thorarinn Gudjonsson, Sigurbergur Karason

Transforming growth factor beta (TGF-β) pathway activation by IPF fibroblast-derived soluble factors is mediated by IL-6 trans-signaling
Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Elizabetha Brook, David Shitrit

Growth hormone releasing hormone-receptor antagonist M1A-602 modulates lung inflammation, cellular signal transduction, and promotes apoptosis of mouse lung fibroblasts
Jason Zhang (United States of America), Roger Cui, Tian Runxia, Ren-Zhi Cai, Mehdi Mirsaedhi, Andrew Schally, Robert M. Jackson

6-aminonicotinamide ameliorates pulmonary fibrosis by suppressing the TGF-beta1 activated Smad signalling pathway
Jin Woo Song (Seoul, Republic of Korea), MIAE KIM, Hak-Su Kim, Su-Jin Moon, Hyun Ju Yoo

Antifibrotics effects of nintedanib on lung fibroblasts derived from patients with progressive fibrosing interstitial lung diseases
Audrey Joannes (RENNES, France), Claudie Morzadec, Francisco Llamas Gutierrez, Dan Cristian Chiforeanu, Bertrand Richard De Latour, Lutz Wollin, Stéphane Jouneau, Laurent Vernhet

Profibrotic implication of platelet-activating factor in tuberculous pleural effusion
Chi-Li Chung (Taipei, Taiwan), Mei-Chuan Chen, Jie-Heng Tsai, Cheng-Ying Hsieh

SDF-1 is an antifibrotic mediator in vivo
Amiq Gazdar (Schlieren b. Kôniz, Switzerland), Kleanthis Fytianos, Ronja Schliep, Sofia Mykoniat, Petra Khan, Katrin Hostettler, Lars Knudsen, Thomas Geiser

Curcumin alleviates alveolar apoptosis and epithelial mesenchymal transition in bleomycin induced lung injury and fibrosis through IL-17A and TGFβ1 pathways
Yashodhar Bhandary (Derlakatte, Dakshina Kannada, South Karnataka, India), Manesh Gouda, Sadiya Shaikh, Ashwini Prabhu, Mohd Altaf Najar, Ts Keshava Prasad, Irfan K, Prashant K Modi

FGF R4 has pro fibrotic properties in Idiopathic Pulmonary Fibrosis
Mada Ghanem (Paris, France), Aurélien Justet, Madeleine Jailllet, Mouna Bachem, Tiara Boghanim, Aurélie Vadel, Arnaud Maillieux, Bruno Crestani

Fibrosis-specific stem-like cells in peripheral IPF lung: Characteristics and potential role
Katrin Esther Hostettler (Basel, Switzerland), Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Amini Gazdar, Thomas Geiser, Michael Tamm
3361  LSC - 2020 - The transcriptome of IPF fibrotic foci identifies the fatty acid metabolism as a critical pathway in fibrogenesis

Pre-congress content

Session 220  00:00 - 23:59
E-poster session: Imaging evaluation of chronic lung diseases

Disease(s): Interstitial lung diseases, Airway diseases, Sleep and breathing disorders
Method(s): Imaging, General respiratory patient care, Physiology, Endoscopy and interventional pulmonology, Pulmonary function testing, Public health

3362  Using Dynamic Chest Radiography to Assess the Impact of Endobronchial Valve Treatment on Lung Volumes and Diaphragm Motion in Severe Emphysema
Thomas Simon FitzMaurice (Liverpool, United Kingdom), Caroline Mccann, Mike Shackcloth, Ram Bedi, Dilip Nazareth, Martin Walshaw, Kamlesh Mohan

3363  Frequency and patterns of lung involvement in patients with vascular Ehlers Danlos Syndrome: Chest computed tomography features and histological comparisons
Amira Benattia (Paris (Île-de-France), France), Amira Benattia, Samia Boussouar, Jean-Baptiste Escudé, Laure Gibault, Frederique Capron, Pierre-Yves Brillet, Philippe Grenier, Xavier Jeanemaitre, Elie Mousseaux, Michael Frank, Olivier Sanchez

3364  Digital tomosynthesis in diagnostics and monitoring of chronic obstructive pulmonary disease
Irina Sincarenco (Chisinau, Republic of Moldova), Nicolae Nalivaico, Anna Moscovciuc, Valentina Bolotnicova

3365  Diaphragm Efficiency Evaluation in Patients with Connective Tissue Diseases
Enikő Bárczi (Budapest, Hungary), Noémi Eszes, Anikó Böhacs, Krisztina Vinceze, Bence Fejér, Ádám Domonkos Tárnoki, Dávid László Tárnoki, Kinga Karlinger, Veronika Müller

3366  Impact of Computed Tomography during Chronic Obstructive Pulmonary Disease Exacerbation
rihab JEBALI (ARIANA, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Nouha Guediri, Hafaoua Daughfous, Fatma Tritar

3367  Small-scale clinical validation of structured light plethysmography (SLP) preliminary reference equations
Shayan Motamedi Fakhr (Ely (Cambridgeshire), United Kingdom), Nicki Barker, John Alexander, Richard Iles, Brendan G Cooper

3368  Assessing Diaphragm Motion Using Dynamic Chest Radiography: a Case Series
Thomas Simon FitzMaurice (Liverpool, United Kingdom), Caroline Mccann, Ram Bedi, Dilip Nazareth, Martin J Walshaw

3369  Correlation between chest CT features and clinical characteristics of patients with bronchiectasis.
Alia Ezzaouia (Tunis, Tunisia), Houda Rouis, Chirine Moussa, amal chennoufi, Alia Ezzaouia, Wajih Gheribi, Nada Akrimi, Ibthiel Khouaja, Amel Khattab, Ines Zendah, Habib Ghedira

3370  Oropharyngeal swallowing pathophysiology in patients with idiopathic pulmonary fibrosis: A consecutive descriptive case series.
Amal Alamer (newcastle upon tyne , United Kingdom), Amal Alamer, Rhys Jones, Chris Ward, Michael Drinnan, Alexander John Simpson, Michael Griffin, Joanne Patterson , Ian Forrest

3371  Structural changes on high resolution computed tomography (HRCT) in adult individuals with a history of bronchopulmonary dysplasia (BPD)
Melvin Pourbazargan (Sundbyberg, Sweden), Sven Nyren, Petra Um-Bergström, Eva Berggren-Broström, Erik Melén, Rebecka Steern, Åsa M Wheelock, Anders Lindén, Reza Karimi, C Magnus Sköld

3372  Transradial bronchial artery embolization for massive hemoptysis secondary to tuberculosis
Zili Meng (Shijiazhuang, China), Jia Meng, Yi Bai

Pre-congress content

Session 221  00:00 - 23:59
E-poster session: Translational aspects of idiopathic pulmonary fibrosis

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): General respiratory patient care, Cell and molecular biology, Physiology, Public health, Imaging, Epidemiology
Chairs: Argyris Tzouvelekis (Athens, Greece), Manuela Funke-Chambour (Bern, Switzerland)

3373  The novel oligonucleotide therapeutics PK-7010 for TGF-ß1 ameliorates bleomycin-induced pulmonary fibrosis in mice
naoki takahashi (tokushima, Japan), Seidai Sato, Takeshi Imakura, Kojin Murakami, Nobuhito Naito, Kozo Kagawa, Kazuya Koyama, Hiroshi Kawano, Kazuaki Tanigawara, Wataru Toriumi, Yasuhiko Nishioka
PDGFα and aSMA mark two distinct mesenchymal cell populations involved in parenchymal and vascular remodeling in pulmonary fibrosis.
Valentina Biasin (Graz, Austria), Slaven Crnkovic, Anita Sahu-Osen, Anna Birnhuber, Elie EI Agha, Katharina Sinn, Walter Klepeiko, Andrea Olschewski, Saverio Bellusci, Leigh M. Marsh, Grazyna Kwapiszewska

DPP-4 is overexpressed in lung tissue from idiopathic pulmonary patients and activates lung fibroblasts
Paula Montero Magalló (Valencia, Spain), Javier Milara, Inés Roger, Cristina Estornut, Julio Cortijo

Altered ECM niche in IPF affect structural remodeling
Linda Elofsson Rendin (Lund, Sweden), Anna Löfdahl, Liang Xiong, Barbora Michalíková, Xiaohong Zhou, Göran Dellgren, Gunilla Westergren-Thorsson

Elevated apoptosis rate of alveolar lymphocytes (AL) in idiopathic pulmonary fibrosis (IPF) and non-specific interstitial pneumonitis (NSIP) - strong positive correlation with bronchoalveolar lavage (BAL) neutrophil count.
Piotr Kopinski (Będzgoszcz, Poland), Tomasz Wandtke, Tomasz Senderek, Ewelina Wędrowska, Joanna Golińska, Karina Szablowska, Grzegorz Przybylski

IL-11 promotes pulmonary vascular remodeling and lung fibrosis through the activation of endothelial to mesenchymal transition.
Ines Roger (Valencia, Spain), Javier Milara, Paula Montero, Pilar Ribera, Julio Cortijo

Decreased mitochondrial complex I activity in blood lymphocytes of patients with idiopathic pulmonary fibrosis
Ilias Dimeas (Larissa, Greece), Emily Zifa, Andreas Mouikis, Aghia Pozantzii, Konstantina Rossi, Anna-Maria Psarra, Sotiros Sinis, Foteini Bardaka, Foteini Malli, Konstantinos Gourgoulianis, Zoe Danil

What cells are replacing the epithelium in cystic remodeling in UIP and COPD
Florian Gallob (Graz, Austria), Luka Brcic, Tamas Zombori, Sylvia Eidenhammer, Wim Timens, Helmut H. Popper

Danshen extract salt Inhibits bleomycin-induced experimental pulmonary fibrosis
Handong Jiang (Shanghai, China), Fangfang Wang, Xueqing Liu

Effect of Tunisian Olive Leaf Extract on oxidative stress and lung fibrosis in rats
Sana BAHRI (Tunis, Tunisia), Raed Abdennabi, Aref Nahdi, Ridha Ben Ali, Mona Mlika, Saloua Jameleddeine

In depth mass spectrometry based proteomic approach to explore the effect of curcumin in IL17A mediated alveolar barrier injury
Sadiya Shaikh (Mangalore, India), Yashodhar P Bhandary, Mohd Altaf Najjar, Ashwini Prabhu, Ts Keshava Prasad, Mahesh M Gouda, Irfan K, Prashant K Modi, Yashodhar P Bhandary

Aging decreases pulmonary fibrosis reversibility via remodeling fatty acid metabolism of fibroblasts modulated by PRDM16
Yue Zhang (China), Ying Meng

Analysis of localization of nintedanib and cyclophosphamide in pulmonary fibrosis using the IM Scope TRIO
Seidai Sato (Hamilton (ON), Canada), Takushi Yamamoto, Kana Waki, Yuki Morimoto, Takeshi Imakura, Kojin Murakami, Naoki Takahashi, Nobuhito Naito, Kozo Kagawa, Kazuya Koyama, Hiroshi Kawano, Koichi Tsuneyama, Yashuhiko Nishioaka

The pulmonary microbiome and immunological activity in IPF patients.
Kristel Svalland Knudsen (Bergen, Norway), Sverre Lehmann, Peter S Hiemstra, Rune Nielsen, Tomas Mikal Eagan

Inhalation of thoron (Tn) gas in controlled conditions of high background radiation (HBR) using natural thorium: Radioactive dose deposition and acute pneumocystis changes in mouse
Debajit Chaudhury (Mangalore, India), Utsav Sen, Nagesh N. Bhat, Bijay K. Sahoo, Sudheer Shenyoy P., Siddhartha Biswas, Karunakara N, Bipasha Bose

Validation of 18F-Fluorodeoxyglucose Positron Emission Tomography as a Translational Biomarker to Support the Development of Novel Anti-fibrotic Drug Therapies
Mary Mcelroy (Edinburgh (Edinburgh), United Kingdom), Juliana Maynard, Sally Price, Peter Simpson

Bronchoalveolar lavage differential cell count on assessment of patients with pulmonary fibrosis
Johanna Salonen (Oulu, Finland), Henri Lampela, Eerika Keskinälo, Hannu Vähänikkilä, Minna Purokivi, Riitta Kaarteenaho

Role of Exosome associated miRNA in IPF
Silvia Romana Stornelli (Roma, Italy), Donato Lacedonia, Federica Maci, Cosimo De Pace, Ernesto Giuffreda, Giulia Scioscia, Piera Socco, Maria Pia Foschino Barbaro
Correlation of response to antifibrotic treatment with adverse events to antifibrotic drugs in IPF patients from the real-world EMPIRE registry

Dragana M. Jovanović (Beograd, Republic of Serbia), Martina Šterclová, Nesrin Mogulkoc, Katarzyna Lewandowska, Veronika Müller, Marta Hákóvá, Mordechai Kramer, Jasna Tekavec-Trkanjec, Michael Studnicka, Natalia Stoeva, Biserka Jovkovska Kaeva, Simona Litterová, Mara Roksandić Milenković, Martina Vašáková

Incidence and prevalence of Systemic Sclerosis-associated Interstitial Lung Disease in a multicenter prospective cohort study.

Koen Verbeke (Berchem, Belgium), Els Vandecasteele, Karin Melens, Daniel Blockmans, Charlotte Carton, Filip De Keyser, Ellen De Langhe, Bernard Lauwerys, Yves Piette, Amber Vanhaecke, Wim Wuys, Guy Brusselle, Vanessa Smith

FVC decline in patients with SSc-ILD by use of anti-acid therapy

Michael Kreuter (Heidelberg, Germany), Hilario Nunes, Gerard J Criner, Petros Sfikakis, Wendy Stevens, Corinna Miede, Manuel Quaresma, Margarida Alves, Toby M. Maher

Relationship between interstitial pneumonia related systemic sclerosis and esophageal motility abnormalities

KENICHIRO HARA (Maebashi, Gunma, Japan), Kouichi Yamaguchi, Masakiyo Yatomi, Hiroaki Tsurumaki, Takeshi Hisada, Toshitaka Maeno

Interstitial lung disease with ANCA-associated vasculitis (AAV-ILD): Clinical features and survival compared to patients with ILD associated with systemic sclerosis and IPF

Felipe Reyes (Peñalolén, Chile), Silvana Saavedra, Karen Vergara, Pamela Wurmann

Lung involvement in primary biliary cholangitis (PBC)

Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Michael Kalashnikov, Denis Konovalov, Alisa Yanakaya, Sergey Moiseev

Effect of anti-IL-17 biologics on KL-6 level and coexisting interstitial pneumonial patients with psoriasis

Hiromichi Hara (Tokyo, Japan), Hanae Miyagawa, Jun Araya, Shunsuke Minagawa, Takanori Numata, Yoshinori Umezawa, Akihiko Asahina, Kazuyoshi Kuwano

Clinical characteristics of lymphangioleiomyomatosis and application of a novel automated cyst burden score

Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Joseph Morrow, Alan Kelly, Aurelie Fabre, Jonathan Dodd, Michael Keane, David Murphy, Cormac McCarthy

Comparison of pulmonary function tests (PFTs) and 6-minute walk test (6MWT) in patients with lymphangioleiomyomatosis (LAM)

Rémi Diesler (Lyon, France), Vincent Cottin, Ségolène Turquier, Mouhamad Nasser, Kais Ahmad, Julie Traclet, Jean-Charles Glerant

Design of phase II, randomized, placebo-controlled study of loratadine associate with rapamycin in patients with lymphangioleiomyomatosis (LAM)

Jaume Bordas-Martinez (Barcelona, Spain), Carmen Herranz, Vanesa Vicens-Zygmont, Antonio Román, Cristina Berastegui, Piedad Ussetti, Rosalia Laporta, Julio Ancochea, Claudia Valenzuela, Alvaro Casanova, Emilio Ansótegui, Jose Antonio Rodriguez-Portal, Guadalupe Bermudo, Patricio Luburich, Roger Llatjós, Salud Santos, Jordi Dorca, Pilar Hereu, Miquel Angel Pujana * Sharing Senior Position, Maria Molina-Molina * Sharing Senior Position

Birt Hogg-Dubé syndrome in Poland

Elżbieta Radzikowska (Warszawa, Poland), Lucyna Opoka, Jolanta Winek, Katarzyna Błasińska, Elzbieta Wiatr

Pivotal role of the HMGB1/sRAGE axis in drug-induced lung injury in advanced lung cancer with pre-existing interstitial lung disease

Satoshi Nakao (Hiroshima, Japan), Yamaguchi Kakuhiro, Shintaro Miyamoto, Taku Nakashima, Hiroshi Iwamoto, Shinichiro Ohshima, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori
Clinical characteristics of a Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH) Cohort
Margaret Gleeson (Limerick, Ireland), Aurelie Fabre, Dermot O’Toole, Rachel Crowley, David Murphy, Cormac McCarth

Effectiveness of chemotherapy treatment for patients with pulmonary Langerhans cell histiocytosis during long-term follow-up
Arina Zinchenko (St. Petersburg, Russian Federation), Lubov’ Novikova, Mikhail M. Ilkovich

Mini-whole lung lavage to treat pulmonary alveolar proteinosis (PAP)
Elena Salvaterra (Riva Del Garda (TN), Italy), Sara Lettieri, Francesca Mariani, Davide Piloni, Federica Meloni, Ilaria Campo

Novel method of whole lung lavage therapy using biphasic cuirass ventilator for pulmonary alveolar proteinosis; the retrospective observational study.
daisuke tamanoi (kumamoto-shi, Japan), Chieko Yoshida, Toshiki Kimura, Takayuki Jodai, Tatsuhiro Isimura, Shinichiro Okamoto, Hidenori ichiyasu, Tatsuro Yamamoto, Takuro Sakagami

A single-centre retrospective study to phenotype unclassifiable interstitial lung disease
Laura Fabbri (Nottingham, United Kingdom), Mouhamad Nasser, Kais Ahmad, Julie Traclet, Vincent Cottin

Pre-congress content Session 223 00:00 - 23:59
E-poster session: Non-invasive ventilation during acute and chronic respiratory failure: technical aspects, adherence and effects

Late Breaking Abstract - Non-invasive ventilation for COVID-19 at a North East London NHS Trust: a retrospective analysis
Matthew Birch (BRENTWOOD, United Kingdom), Charlotte Toms, Harish Shankar Kumar, Claire Calderwood, Adam Ainley

Late Breaking Abstract - Retrospective analysis of CPAP using home NIV machines outwith ICU for COVID-19
Varun Sharma (, United Kingdom), Grace Mcdowell, Daniel Rodgers, Elizabeth Routledge, Thomas French, Jill Selfridge, Dagshagni Taylor, David Colville, Pauline Grose, Joris Van Der Horst, Douglas Cowan, Mark Cotton

1-Year mortality in patients with home mechanical ventilation
Roy T.M. Sprooten (Cadier en Keer, Netherlands), Bettine A.H. Vosse, Anne Q.R. Visser, Sander C.M. Steyns, Marijke Rutten, Nicolle A.M. Cobben, Geertjan Wesseling

Survival estimates in patients with home non-invasive ventilation
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro

The utility of esophageal pressure measurement in non-invasive ventilation weaning in severe COPD exacerbation
Alexandru Tudor Steriade (Bucuresti, Romania), Mihai Gologanu, Daniela Necula, Nicoleta Sargarovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacea

Onset and clinical predictors of delirium in patients undergoing non-invasive mechanical ventilation for acute respiratory failure - NIVILIUM multicenter trial
Luca Tabbi (MODENA, Italy), Roberto Tonelli, Ivana Castaniere, Riccardo Fantini, Sara Sargentone, Maria Cristina Paonessa, Marianna Sacchi, Antonella Spacone, Roberto Dongilli, Elisa Boni, Laura Falsini, Viviana Ribuffo, Alessandro Marchioni, Lara Pisani, Stefano Nava, Enrico Clini

High Flow Nasal Therapy (HFNT) in Pediatric patients at the Home
Adel Bougatet (San Antonio, United States of America), Guadalupe Martinez, Derrick Watson, Shannon Hardy, Ashley Phillips, Rodney Gray

Nusinersen for Spinal Muscular Atrophy type 1: Real-World Respiratory Experience
Moran Lavie (Tel-Aviv, Israel), Nir Diamant, Efraim Sadot, Aviva Fatal, Liora Sagi, Keren Armoni Domany, Israel Amirav
3418 Integrated Respiratory Care for Patients on Prolonged Home mechanical Ventilation: Preliminary Results of the CAI_Vent Program
Margarida Torres Redondo (Matosinhos, Portugal), Daniela Rodrigues, David Araujo, Tiago Pinto, Arnaldo Fernandes, Carol Pinto, Pedro Pinheiro, Manuela Sousa, Antonio Loureiro, Paulo Costa, Teresa Honrado, Miguel Gonçalves

3419 HOW OUR AMYOTROPHIC LATERAL SCLEROSIS PATIENTS DIE
Natalia Pascual Martinez (Cordoba, Spain), María Melgar Herrero, Cristina Gómez Rebollo, Elisa Martínez Repiso

3420 The minimal clinical important difference of the severe respiratory insufficiency questionnaire in stable hypercapnic COPD patients on chronic NIV.
Tim Raveling (Groningen, Netherlands), Janine Kort, Gerrie Bladder, Peter Wijkstra, Marieke Duiverman

3421 Usage of a mobile BIPAP device for reducing dyspnea during exercise in patients with moderate to severe COPD naive to mechanical ventilation: a randomized crossover trial -
Daniel Majorski (Cologne, Germany), Sarah Schwarz, Friederike Magnet, Jens Callegari, Claudia Schmook, Wolfram Windisch

3422 Compliance to domiciliary noninvasive ventilation in stable hypercapnic COPD patients
Mariem Ferchichi (Tunis, Tunisia), Hafoua Daghfous, Amani Ben Mansour, Soumaya Ben Saad, Fatma Tritar

3423 Development of the Severe Respiratory Insufficiency application—randomized controlled trial—
Daniel Majorski (Cologne, Germany), Jens Callegari, Sarah Schwarz, Friederike Magnet, Tim Mathes, Hüseyin Ates, Rebar Ahmad, Navid Fazel, Wolfram Windisch

3424 Objective sleep quality is altered by the systematic addition of a humidification system during home non-invasive ventilation (NIV): a randomized controlled trial
Maxime Patout (Mont-Saint Aignan, France), Astrid Bertier, Emeline Fresnel, Adrien Kerfourn, Jean-François Muir, Adriana Portmann, Elodie Lhuillier, Antoine Cuvelier

3425 Non Invasive Ventilation in adult CF patients: a single centre experience in last two decades.
Barbara Messore (Torino (TO), Italy), Carlotta Biglia, Sara Demichelis, Cristina Bena, Roberta Di Tria, Anna Maria Rella, Paolo Maria Trovato, Martina Sciolla, Cinzia Ferrero, Alessio Mattei

3426 Overnight EPAP Adjustments Addressing Expiratory Flow Limitation
Chris Procyk (United States of America), Chuck Cain, Jim Mckenzie, Michael Kissel, Bill Hardy, Parul Nisha, Sidney Cannon-Bailey

3427 Adherence to Home Mechanical Ventilation over 10-Years: A Retrospective, Single-Centre Cohort Study
Omar Masoud (London, United Kingdom), Michelle Ramsay, Eui-Sik Suh, Georgios Kaltsakas, Shelley Srivastava, Hina Pattani, Philip Marino, Patrick Murphy, Nicholas Hart, Joerg Steier

3428 Microbiological contamination of humidifiers used for home noninvasive ventilation (NIV)
Maxime Patout (Mont-Saint Aignan, France), Justine Dampierre, Christine Chefson Girault, Andre Gillibert, Elise Fiaux, Edouard Dantoing, Juliette Da Cunha, Gwenaelle Maclaud, Remy Dubian, Adeline Dunet, Maryline Lefort, Elodie Lhuillier, Jean Francois Muir, Martine Pestel-Caron, Antoine Cuvelier

3429 Improving response times for acute non-invasive ventilation (NIV) set-ups
Max Thomas (Birmingham, United Kingdom), Pearlene Antoine-Pitterson, Alice Robinson, Bethany Jones, Anushka Shammu Rajah, Alain Al Helou, Rahul Mukherjee

Pre-congress content  Session 224  00:00 - 23:59
E-poster session: Novel findings regarding acute respiratory distress syndrome, extra corporeal membrane oxygenation and weaning from mechanical ventilation

Disease(s): Respiratory critical care, Interstitial lung diseases
Method(s): Respiratory intensive care, Epidemiology, Imaging, Physiology, General respiratory patient care, Pulmonary rehabilitation

Chairs: Dominic Dellweg (Schmallenberg Grafschaft, Germany), Patrick B. Murphy (Oxted (Surrey), United Kingdom)

3430 Late Breaking Abstract - Abdominal Muscle Function During Spontaneous Breathing Trials to Predict Extubation Failure
Annia Fleur Schreiber (Torino (TO), Italy), Michele Bertoni, Benjamin Coiffard, Samira Fard, Jenna Wong, W. Darlene Reid, Laurent Brochard, Simone Piva, Ewan C. Goligher

3431 Late Breaking Abstract - High volume, low PEEP and passive hyperventilation without sedatives instead of low tidal volume, high PEEP and deep sedation in COVID19.
Gerhard Laier-Groeneveld (Bochum, Germany), Bernd Kurz, Carl-Peter Criée, Gert Hasenfuss
**Predictors for successful weaning from V-V ECMO**
Christoph Fisser (Regensburg, Germany), Felix Gerhardinger, Thomas Müller, Maximilian Malfertheiner, Alois Philipp, Maik Foltan, Dirk Lunz, Matthias Lubnow

**Comparison of anticoagulation strategies for veno-venous ECMO support in acute respiratory failure**
Benjamin Seeligier (Hannover, Germany), Robert Friedrich, Michael Döbler, Klaus Stahl, Julius J Schmidt, Heiko Schenk, Christian Kühn, Johann Bauersachs, Tobias Welte, Marius M Hoepner, Christian Bode, Sascha David

**Open-lung biopsy identifies airway morphological changes in distal airways of patients with ARDS.**
Ludovic Gerard (Bruxelles, Belgium), Delphine Hoton, Pierre-Francois Laterre, Charles Pilette

**Cerebral cortex and respiratory muscle perfusion and oxygenation responses between patients failing or succeeding the SBT**
Zafeiris Louvaris (Leuven, Belgium), Marine Van Hollebeke, Philippe Meersseman, Joost Wauters, Alexander Wilmer, Rik Gosselink, Greet Hermans, Daniel Langer

**Prognostic score of prone positioning to predict outcome in patients with moderate to severe acute respiratory distress syndrome**
Pin-Kuei Fu (Taichung, Taiwan), Po-Hsin Lee

**Oxygen saturation index as a surrogate to oxygenation index in predicting outcomes in ARDS**
Sushmitha Jakka (Visakhapatnam (Andhra Pradesh), India), Sateesh Chandra, Dhruva Chaudhry, Manjuunath B.G., Diksha Tyagi, Athul Thulasi

**Study of relation between weaning failure from mechanical ventilation and cardiac dysfunction in Intensive Care patients.**
Radwa Elhefny (Cairo, Egypt), Sherif Zaki, Osama Momtaz, Rabab Fawzy

**Early gas exchange effect of prone positioning is not associated with intensive care unit survival in moderate to severe acute respiratory distress syndrome**
You-Yi Chen (Yunlin County 6, Taiwan)

**Extracorporeal membrane oxygenation for adults with active malignancy: Is there difference to clinical outcome between hematologic and oncologic?**
Chul Park (Iksan, Jeollabuk-do, Republic of Korea), Eun Taek Jung, Ki Eun Hwang, Jae Wan Jung, Hyun Im, Hak Ryul Kim

**Use of digital auscultation in patients with ARDS: a correlation study with CT imaging**
Angelo Calabrese (ROMA, Italy), Davide Chiumento, Martina Gurgitano, Arianna Ciabattoni, Francesco Lombardi, Giacomo Sgalla, Luca Richeldi

**Inadequate assessment of patient-ventilator interaction due to suboptimal diaphragm electrical activity signal filtering**
Annemijn Jonkman (Raalte, Netherlands), Lisanne Roesthuis, Esmée De Boer, Heder De Vries, Armand Girbes, Hans Van Der Hoeven, Pieter R. Tuinman, Leo Heunks

**Central venous oxygen saturation as a predictor of failure of weaning from mechanical ventilation**
Muhammad Essam Nagy (Portsaid, Egypt), Samiha Ashmawi, Hala Salem

**Using the Rox index for Nasal High Flow therapy in patients with interstitial lung disease and severe acute respiratory failure.**
Ana Cysneiros (Lisboa, Portugal), Diana Organista, Daniela Machado, Daniela Rodrigues, Francisca Lopes, Catarina Antunes, Fernanda Paula, Filipe Froes

**Risk factors of reintubation in patients receiving post-extubation nasal high flow therapy**
Jo Min Ju (Seoul, Republic of Korea), Yun Jung Huh, Yoomi Yeo, Ji-Yong Moon, Tae-Hyung Kim, Sung Jun Chung, Hyun Lee, Dong Won Park, Sang Heon Kim, Jang Won Sohn, Ho Jooyoon, Tai Sun Park
Disease(s) : Airway diseases, Respiratory critical care, Pulmonary vascular diseases, Sleep and breathing disorders, Thoracic oncology

Method(s) : Public health, Pulmonary function testing, Respiratory intensive care, Imaging, General respiratory patient care, Surgery, Pulmonary rehabilitation, Cell and molecular biology

Chairs : Laurent Bertoletti (Saint Etienne Cedex, France), Jorge Moisés Lafuente (Barcelona, Spain)

In-hospital and long term (10-year) outcomes of thromboembolic disease in a single tertiary center in Greece: "Real world data"
Evangelia Serasli (Thessaloniki, Greece), Stavros Tryfon, Marianna Moyseos, Alexia Stavrati, Eleni Kerezidou, Athina Georgopoulou, John Zarifis, Adamantios Chlors

Prevalence of Pulmonary Embolism Among Systemic Lupus Erythematosus patients
Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milic, Vladimir Zjugic

How many patients recover from acute kidney injury after pulmonary embolism?
Laurent Bertoletti (Saint Etienne Cedex, France), Martin Murgier, Léa Fouillet, Édouard Ollier, Adel Merah, Nathalie Moulin, Sandrine Accassat, Cécile Duvillard, Elodie De Magalhaes, Patrick Mismetti, Manuel Monreal

Obstructive sleep apnea and prognosis in acute pulmonary embolism
Thomas M. Berghaus (Augsburg, Germany), Fabian Geissenberger, Sabine Haberl, Martin Schwaiblmair, Wolfgang Von Scheidt, Dirk Von Lewinski, Michael Probst, Thomas Kroencke, Florian Schwarz

Interventional Treatment in Chronic Thromboembolic Pulmonary Hypertension with Microvasculopathy
Hiroyuki Onishi (Kobe City, Japan), Yu Taniguchi, Yoichiro Matsuoka, Yu Izawa, Yasonori Tsuboi, Hiromasa Otake, Seimi Satomi-Kobayashi, Noriaki Emoto, Ken-Ichi Hirata

Diagnostic value of d-dimer in the diagnosis of pulmonary embolism in pregnancy
Somayeh Sadeghi (Isfahan, Islamic Republic of Iran), Bahareh Safaian

Venous thromboembolic disease in patients with small cell lung cancer: incidence and clinicopathological risk factors
Andriani Charpidou (Athens, Greece), Konstantinos Livianos, Evangelos Dimakakos, Dimitrios Vassos, Panagiota-Elisavet Polydorou, Dimitra Grapsa, Elias Kainis, Konstantinos Syrigos

Clinical in-hospital mortality profile of pulmonary embolism
Loreta Karaulli (Tirana, Albania), Juliana Gjerazi, Silvana Bala, Jul Bushati

Factors associated with thromboembolic events in patients with pulmonary tuberculosis
Abir Hedhli Ep Cherni (Tunis, Tunisia), Safa Marzouki, Meriem Mjdi, Yacine Ouahchi, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujeni, Samira Merai

Hydatid pulmonary embolism
amina abdelkahir (Ben Arous, Tunisia), Imen Bouassida, Hazem Zribi, Asma Saad, Amani Ben Mansour, Sonia Ouergi, Aida Ayadi, Adel Marghli

Improvements in short- and long-term outcomes in patients with pulmonary embolism after outpatient pulmonary rehabilitation
Stephan Nopp (Vienna, Austria), Frederikus A. Klok, Florian Moik, Milos Petrovic, Irmgard Derka, Cihan Ay, Ralf H. Zwick

Differences of functional capacity between patients with left heart failure and rightheart failure associated with chronic pulmonary diseases
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez Hernández, Laura Arely Martínez-Bautista, Arturo Orea-Tejeda, Karen Aide Santillán-Reyes, Guadalupe Lizzbett Luna-Rodríguez, Yael Ramiro Gastelum Ayala

Endothelin-1 gen (EDN1) regulating miRNAs are downregulated in Idiopathic Pulmonary Arterial Hypertension
Adolfo Balora Villar (Pontevedra, Spain), Mauro Lago Docomo, Carlos López, Carlos Vilarino, Joan Albert Barbera, Isabel Blanco, Diana Valverde

Differences of functional capacity between patients with left heart failure and rightheart failure associated with chronic pulmonary diseases
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martinez, Viridiana Peláez Hernández, Arturo Orea Tejeda, Rocio Sánchez Santillán, Karen Santillán Reyes, Karla Leticia Rosales Castillo, Guadalupe Lizzbett Luna Rodríguez, Manuel Abraham Gomez Martinez
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<td>Pre-congress content</td>
<td>E-poster session: Current and contemporary practices in endobronchial ultrasound</td>
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<td><strong>Disease(s):</strong></td>
<td>Thoracic oncology, Interstitial lung diseases, Airway diseases, Respiratory critical care</td>
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<td><strong>Method(s):</strong></td>
<td>Imaging, Endoscopy and interventional pulmonology, Respiratory intensive care, Physiology</td>
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<td><strong>Chairs:</strong></td>
<td>Prashant Nemichand Chhajed (Mumbai, India)</td>
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<td>Late Breaking Abstract - The impact of COPD on hypercapnia during flexible bronchoscopy with EBUS-TBNA in analgosedation</td>
<td>Daniel Strohleit (Essen, Germany), Erich Stoeben, Friederike Magnet, Thomas Galetin</td>
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<td>Safety and diagnostic yield of echobronchoscopy guided transvascular puncture</td>
<td>Marwan Mohamed Choukri (Madrid, Spain), Andrés Giménez Velando, Francisco José Laso Del Hierro, Ainhoa Izquierdo Pérez, Andrés Mauricio Morales García, Javier Flandes Aldeyturriaga</td>
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<td>Variability of sedation controlled by pulmonologists during EBUS in Spain</td>
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<td>Is EBUS sampling adequate for molecular testing in patients with advanced NSCLC?</td>
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<td>An usefulness of combined endobronchial and endoscopic ultrasound-guided needle aspiration in the diagnosis of sarcoidosis: a prospective, multicenter trial</td>
<td>Maciej Gnass (Myślenice, Poland), Anna Filarecka, Jacek Wojtacha, Jerzy Soja, Juliusz Pankowski, Damian Czyżewski, Wojciech Zającki, Arkadiusz Joks, Adam Cmiel, Artur Szłubowski</td>
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<td>Elastography A Double-Edged Knife in Countries with High Prevalence Anthracosis</td>
<td>Arda Kiani (Tehran, Islamic Republic of Iran), Atefeh Abedini, Fatemeh Razavi, Mehrdad Farahani, Marzieh Hashemi, Habib Emami, Forouzan Mohammadi</td>
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<td>Balanced propofol-based analgosedation performed by pulmonologist in interventional procedures: an Italian “real-life” study</td>
<td>Rosalba Maffucci (Napoli (NA), Italy), Uberto Maccari, Carmela Martinez, Lucia Nardelli, Andrea Bianco, Raffaele Scala</td>
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<td>Endobronchial microcoil fiducial markers for stereotactic radiation therapy</td>
<td>Leslie Noirez (Lausanne, Switzerland), Alessio Casutt, Catherine Beigelman-Aubry, Maurizio Bernasconi, Remy Kinj, André-Dante Durham, Christophe Von Garnier, Alban Lovis</td>
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<td>Comparative diagnostic accuracy of thoracic endosonography (EBUS/EUS-b) and integrated PET-CT in mediastinal staging of potentially operable patients with NSCLC.</td>
<td>Serafeim Chrysikos (Athens, Greece), Ioannis Oktozios, Katerina Dimakou, Eleftherios Zervas, Theodoros Karampitsakos, Maria Anyfanti, Argyrios Tzouvelekis, Nikolaos Koulouris, Ioannis Vasileiadis, Konstantinos Syrigos</td>
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<td>Randomised controlled trial on optimal sampling sequence in radial guide sheath endobronchial ultrasound (R-EBUS) transbronchial lung biopsy</td>
<td>Chinthaka Samaranayake (Brisbane, Australia), Craig Wright, Shiv Erigadoo, Maree Azzopardi, Michael Purt, Michael Bint</td>
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<td>Endobronchial Ultrasound (EBUS) for T4 staging in patients with resectable NSCLC</td>
<td>Jolanda C. Kuijvenhoven (Leeuwarden, Netherlands), Vanina Livi, Artur Szłubowski, Maarten Ninaber, Daniel Korenvaar, Lauran Stoger, Ralph Widya, Jerry Braun, Wim Jan Van Boven, Rocco Trisolini, Jouke Annema</td>
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<td>The impact of needle choice on molecular analysis of ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) in NSCLC</td>
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<td>Diagnosis of Histoplasmosis Using EBUS-TBNA in Patients with Suspected Lung Cancer: Case Series of a Reference Center in Brazil</td>
<td>Joao Pedro Steinhauser Motta (Rio De Janeiro (RJ), Brazil), Caroliny Samary Silva Lobato, Amir Szklo</td>
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<td>Negative predictive value of EBUS-TBNA in mediastinal staging of lung cancer</td>
<td>Maria Morales Gonzalez (Jerez de la Frontera, Spain), Cayo Garcia Polo, Carolina España Domínguez, Isabel Muñoz Ramírez, María Pérez Morales</td>
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E-poster session: Clinical aspects and new treatment strategies for rare interstitial lung diseases in adults and children

**Disease(s):** Interstitial lung diseases, Airway diseases

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

**Chairs:** Clairelyne Dupin (Paris, France), Elisabetta Balestro (Padova (PD), Italy)

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3478. **DIAGNOSTICS, THERAPY, COURSE AND RESULTS IN PATIENTS WITH CHRONIC EXTRINSIC ALLERGIC ALVEOLITIS.**
Francesco Bini (Pavia (PV), Italy), Daniele Colombo, Maria Chiara Papetti, Bruno Bodini, Angelo De Lauretis, Adriano Vaghi

3479. **The effects of oral corticosteroid treatment (OCS) on sequential lung function tests in a cohort of patients with acute hypersensitivity pneumonitis (AHP).**
Abhinav Tiwari (Southampton, United Kingdom), Vanessa Titmuss, Suress Babu, Anna Donaldson

3480. **Fibrosing cases of chronic eosinophilic pneumonia.**
Naoko Takeuchi (Sakai, Japan), Toru Arai, Kazunobu Tachibana, Takayuki Takimoto, Yosinobu Matsuda, Yu Kurahara, Kanako Katayama, Yukihiro Nakamura, Reiko Sugawara, Chikatoshi Sugimoto, Seiji Hayashi, Masanori Akira, Takahiko Kasai, Yoshikazu Inoue

3481. **Rheumatoid arthritis-related interstitial lung disease (RA-ILD): Clinical, functional features, and variables associated poor initial prognosis in a chilean cohort.**
Felipe Reyes (Peñalolén, Chile), Silvana Saavedra, Karen Vergara, Matias Florenzano, Veronica Wolff

3482. **Characterization of pleuroparenchymal fibroelastosis in two respiratory reference centers in santiago, chile.**
Gina Miranda (santiago, Chile), Laura Mendoza, Nadia Herrera, Vivianne Agar, Claudio Silva, Ivan Caviedes

3483. **Pleural effusion in patients with IgG4-related disease: Investigated features and compared to tuberculous pleurisy.**
Masafumi Shimoda (Tokyo, Japan), Yoshiaki Tanaka, Kozo Morimoto, Kiyomi Shimoda, Tamiko Takemura, Mikio Saotome, Kozo Yoshimori, Ken Ohta

3484. **Clinical evolution and diagnosis in neuroendocrine cell hyperplasia of the infancy (NEHI): a 12-year follow-up of ten children.**
Diannet Quintero García (Valencia, Spain), Laura Mendoza, Nadia Herrera, Vivianne Agar, Claudio Silva, Ivan Caviedes

3485. **Trachea stenosis in K eutel syndrome.**
Pilar Caro Aguilera (Malaga, Spain), Yazmina Martinez Garcia, Inmaculada Gómez Garrido, Javier Pérez Frías, Estela Pérez Ruiz

3486. **Should there be a management plan of children with post-infectious bronchiolitis obliterans and bronchiectasis?**
Carolina Arez Constant (Lisboa, Portugal), Luisa Pereira, Ana Saianda, Rosário Ferreira, Ana Margarida Silva, Andreia Dascalço, Teresa Bandeira

3487. **Case report: Hermansky-Pudlak syndrome (HPS) and single lung transplantation (LUTX).**
Bettina Weingard (Homburg (Saar), Germany), Franziska C. Trudzinski, Frederik Seiler, Philipp M. Lepper, Martin Hetzel, Hans-Joachim Schäfers, Robert Bals, Heinerike Wilkens, Frank Langer

3488. **Extracorporeal photopheresis: an effective treatment for pulmonary graft versus host disease.**
Vicky Taylor (London, United Kingdom), Matthias Klammer, Raminder Aul

3489. **Chronic Pulmonary GVHD in adults undergoing hematopoietic stem cell transplant in a tertiary care hospital in South India.**
Vimi Varghese (Vellore (Tamil Nadu), India), Barney Isaac T. J, D.J Christophe, Biju George, Sharon Anbumalar Lionel

3490. **Pulmonary alveolar microlithiasis: genetic disorder and concomitant altered calcium metabolism.**
Yuliana Pascual-González (L’Hospitalet de Llobregat, Spain), Ester Cuevas, Patricio Luburich, Vanesa Vicens-Zygumn

3491. **Effect of Disodium Etidronate in Patient With Pulmonary Alveolar Microlithiasis.**
Mina Gharibzadeh Hizal (Ankara, Turkey), Sanem Erilmaz Polat, Gokcen Dilsa Tugcu, Altan Gunes, Guzin Cinel

3492. **Dendriform pulmonary ossification as a rare and unusual complication associated with interstitial lung disease.**
Michael Kuchuk (Kiryat-Ono, Israel)

3493. **Comparative transcriptomic profiling of CD4+ T cells in two models of lung fibrosis in mice.**
Marie Moog (Hannover, Germany), Christopher A. Hinze, Regina Maus, David S. Deluca, Tobias Welte, Martin Kolb, Ulrich A. Maus
**Role of regulatory T cells in S. pneumoniae-induced exacerbation of lung fibrosis in mice**
Tina Bormann (Hannover, Germany), Steffi Moyé, Regina Maus, Tobias Welte, Jack Gauldie, Martin Kolb, Ulrich A. Maus

**Effect of rifampin, a potent organic-anion-transporting polypeptide inhibitor (OATPi), on the PK of BMS-986278, a lysosphatidic acid receptor (LPA1) antagonist**
Giridhar Tirucherai (Princeton, United States of America), Qian Ruan, Dara Hawthorne, Dale Yu, Ratna Revankar, Edgar D Charles

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**Pre-congress content**

_E-poster session: Worldwide respiratory disease across the full spectrum_

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

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

**Chairs**: Myrofora Goutaki (Bern, Switzerland), Rosalie Mensink-Bout (Rotterdam, Netherlands)

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**Healthy children’s sputum – a marker of exposure to air pollution at school?**
Abigail Whitehouse (London, United Kingdom), Jonathan Grigg

**Parent-child agreement in reporting of current wheeze: can we trust questionnaires?**
Rebeca Mozun (Bern, Switzerland), Cristina Ardura-Garcia, Eva S. L. Pedersen, Myrofora Goutaki, Jakob Usemann, Floran Singer, Philipp Latzin, Alexander Moeller, Claudia E. Kuehni

**Operational definitions of paediatric asthma used in epidemiological studies: A systematic review**
Mohammad Shahidul Islam (Edinburgh, United Kingdom), Samin Huq, Salahuddin Ahmed, Sudipto Roy, Steve Cunningham, Samir K Saha, Harish Nair

**Meta-analysis of the prevalence of asthma and asthma symptoms in Russia**
Barma Batozhargalova (Moscow, Russian Federation), Yuriy Mizernitskiy

**Asthma treatment for children in tertiary care in Switzerland**
Cristina Ardura-Garcia (Bern, Switzerland), Eva Sophie Lunde Pedersen, Carmen De Jong, Jürg Barben, Anja Jochemmann, Andreas Jung, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Claudia Elisabeth Kuehni

**Epidemiology of severe respiratory syncytial virus infection in Ethiopian infants: A prospective study**
Abate Yeshidinber Weldetsadik (Addis Ababa, Ethiopia), Frank Riedel

**Mortality in preterm infants with bronchopulmonary dysplasia associated pulmonary hypertension: a systematic literature review**
Laura Downham (Allschwil, Switzerland), Sofija Cerovic, Catherine Lesage, Sandrine Leroy

**Primary ciliary dyskinesia and non-CF bronchiectasis in the 100,000 Genomes Project**
Jane Lucas (Southampton (Hampshire), United Kingdom), Gabrielle Wheway, Jelmer Legebeke, Siobhan B Carr, Mary Carroll, Philip Chetcuti, Robert Hirst, John Holloway, David Hunt, Priti Kenia, Michael Loebinger, Jenny Lord, Deborah Morris-Rosendal, Eduardo Moya, Manjith Narayanan, Christopher O'Callaghan, Daniel Peckham, Evie Robson, Amelia Showemark, Simon Thomas, Woof Walker, Diana Baralle, Hannah M Mitchellson, Claire Hogg, Jane Lucas

**Prescriptions for treatment in patients with PCD: does clinical routine match recommendations?**
Eugénie Noémie Rachel Collaud (Grolley, Switzerland), Agatha Wisse, Eva Sophie Lunde Pedersen, Barben Juerg, Christian Clarembach, Andreas Jung, Philipp Latzin, Romain Lazor, Lura Marco, Isabelle Rochat, Myrofora Goutaki, Claudia Kuehni

**Management of congenital lung malformations in Scottish paediatric centres**
Louise Thomson (Glasgow (Glasgow), United Kingdom), Kenneth Macleod

**Prevalence and risk factors of chronic cough in Swiss schoolchildren**
Maria Christina Mallet (Basel, Switzerland), Rebeca Mozun, Cristina Ardura-Garcia, Philipp Latzin, Alexander Moeller, Claudia E Kuehni

**Increased infant food diversity and the risk of asthma and allergic rhinitis up to 12 years of age**
Emma Goksör (Molnlycke, Sweden), Bright Nwaru, Göran Wennergren

**Urgency consultations for respiratory diseases in children 5-14 years old and their association with environmental factors in the town of Calama, Chile**
Orietta Nicolis (Chile), Juan Carrillo, Francisco Muñoz, Ivan Silva, German Ibacache

**Epidemiology of Robin sequence in the United Kingdom and Ireland: findings of a national surveillance study**
Marie Wright (Vancouver (BC), Canada), Felicity Mehendale, Patricia Jackson, Edile Murdoch, Sheila Javadpour, Don Urquhart
A systematic review of the impact of food insecurity on the risk of developing asthma, or having poor asthma control, in childhood
Samra Mahmood (Bradford, United Kingdom), Stephanie Cheetham, Lynsey Brown, Daniel Hawcutt, Philip Lawrence, Sarah Mayell, Omendra Narayan, Justus Simba, Matthew Thomas, Ian Sinha

The prevalence of tracheobronchomalacia in children with Primary Ciliary Dyskinesia
Synne Sperstad Kennelly (Norway), Ketil Heimdal, Finn P. Reinholdt, Suzanne Crowley

E-poster session: From the bronchoscope to the clinic: paediatric bronchology at a glance

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): General respiratory patient care, Imaging, Epidemiology, Surgery, Endoscopy and interventional pulmonology, Public health
Chairs: Dirk Schramm (Düsseldorf, Germany), Elias Seidl (München, Germany)

Foreign Body Removal by Flexible Bronchoscopy Using Retrieval Basket in Children
Elpis Hatziagorou (Thessaloniki, Greece), Fotios Kirvassilis, Andreas Ntaflos, Athanasios Skouras, George Kontzoglou, John Tsanakas

Lymphoid interstitial pneumonia should be suspected in children with autoimmune disease and immune deficiency
Nagehan Emiralioğlu (Ankara, Turkey), Busra Köseoğlu, Diler Ademhan, Beste Özşesen, Birce Sunman, Güz in Cinel, Nursun Özce, Berna Oğuz, Diclehan Orhan, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

Foreign Body Removal by Flexible Bronchoscopy Using Retrieval Basket in Children
Elpis Hatziagorou (Thessaloniki, Greece), Fotios Kirvassilis, Andreas Ntaflos, Athanasios Skouras, George Kontzoglou, John Tsanakas

Clinical characteristics and radiological findings of children with hypersensitivity pneumonitis?
Nagehan Emiralioğlu (Ankara, Turkey), Beste Özşesen, Diler Ademhan, Birce Sunman, Berna Oğuz, Diclehan Orhan, Güz in Cinel, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

Severity of Bronchiectasis and Lung Functions Related with the Genotype of Primary Ciliary Dyskinesia Patients
Nagehan Emiralioğlu (Ankara, Turkey), Berna Oğuz, Beste Özşesen, Diler Ademhan, Birce Sunman, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özçelik

Bronchiectasis in children: a risky evolution of recurrent respiratory infection
Michele Ghezzi (Bergamo, Italy), Giulia Maria Luisa Cammi, Laura Paradiso, Emma Longoni, Marco Morelli, Andrea Farolfi, Enza Carmina D'Auria, Gianvincenzo Zuccotti

Comparison of patient care pathway between primary ciliary dyskinesia and cystic fibrosis
Ralph Epaud (Creteil, France), Noemie Salaun-Penquer, Camille Jung, Celine Delestrain, Natascha Remus, Benoit Douvry, Salome Epaud, Matthieu Ortala, Bernard Maitre

Pulmonary Hypertension in Childhood
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Pelin Asfuroğlu, Serdar Kula, Fatma Incedere, Semih Tokgoz, Deniz Oğuz, Sedef Tunaoglu

An unusual cause of congenital stridor
Anna Wiemers (Düsseldorf, Germany), Dirk Schramm, Peter Amrhein

Follow-up of children after resection for congenital thoracic malformations
Michele Ghezzi (Bergamo, Italy), Emma Longoni, Giulia Maria Luisa Cammi, Laura Paradiso, Marco Morelli, Andrea Farolfi, Enza Carmina D'Auria, Gianvincenzo Zuccotti

Review of a children's complex airway clinic
Teresa MacCarriick (Chester, United Kingdom), Ravi Sharma, Andrew Selby

A case of Stevens-Johnson Syndrome associated with bronchiolitis obliterans
Ayse Tana Aslan (Ankara, Turkey), Tuğba Ramasli Gursoy, Hacer Ilbilge Ertay Karagol, Zeynep Reyhan Onay, Rana Beyoglu, Gulcin Durukan Guraydin, Oznur Boyunaga, Tugba Sismanlar Eyuboglu

Tracheomalacia: our ten years experience in Milan
Michele Ghezzi (Bergamo, Italy), Laura Paradiso, Giulia Maria Luisa Cammi, Emma Longoni, Marco Morelli, Andrea Farolfi, Enza Carmina D'Auria, Gianvincenzo Zuccotti

Longitudinal bronchoscopy findings in children with mucopolysaccharidosis II (MPS II)
Marianne Muhlebach (Chapel Hill, United States of America), Joseph Muenzer
A Novel Mutation in Primary Ciliary Dyskinesia: c. 2511dupC p.(Thr838Hisfs*15)  
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyüboglu, Fatma Kurt Colak, Tugba Ramaslı Gursoy

Progressive lung disease caused by ABCA3 mutation  
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyüboglu, Tugba Ramaslı Gursoy, Zeynep Reyhan Onay, Sevgi Pekcan, Matthias Griese

Clinical features of surfactant metabolism disorders in children  
Ayse Tana Aslan (Ankara, Turkey), Tuğba Ramaslı Gursoy, Zeynep Reyhan Onay, Pelin Asfuroğlu, Tuğba Sismanlar Eyüboglu

Clinical features and factors affecting late diagnose of Primary Ciliary Dyskinesia in childhood  
Ayse Tana Aslan (Ankara, Turkey), Pelin Asfuroğlu, Tugba Ramaslı Gursoy, Zeynep Reyhan Onay, Tuğba Sismanlar Eyüboglu

Pleural tuberculosis in a Tunisian serie: On what diagnostic tools we rely?  
BAILI HASSENE (sousse, Tunisia), Hamdi Besma, Jrad Sonia, Khalfallah Ikbel, Louhaichi Sabrine, Allouch Asma, Radhouani Alaa, Anmar Jamel, Hamzaoui Agnès

**Pre-congress content**

**Session 230**  
00:00 - 23:59

**E-poster session: Diagnostic and prognostic markers for disease-associated interstitial lung disease and hypersensitivity pneumonitis**

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

**Method(s):**  
General respiratory patient care  Pulmonary function testing  Imaging  Epidemiology  Pulmonary rehabilitation  Cell and molecular biology  Physiology

**Chairs:**  
Veronica Alfieri (Parma (PR), Italy), George Margaritopoulos (London, United Kingdom)

**Immune alveolitis profile in bronchoalveolar lavage of infiltrative lung diseases: not just counting matters.**  
Antoine Moui (Nantes, France), Stéphanie Dirou, Christine Sagan, Renan Liberge, Claire Defrance, Pierre-Paul Arrigoni, Olivier Morla, Christine Kandel-Aznar, Adrien Tissot, Emmanuel Eschapasse, Thomas Goronfloth, Antoine Magnan, François-Xavier Blanc

**Connective tissue disease-associated interstitial lung diseases and interstitial pneumonia with autoimmune features: different entities?**  
Martin Nikolai Sánchez Mitacc (Lima, Peru), Hernando Torres-Zevallos, Nuria Albacar, Joel Francesqui, Sandra Cuerdo, Carmen Lucena, Marc Boada, Gerard Espinosa, Raúl Castellanos, Odette Viñas, Estibaliz Ruiz, Albert Pérez, Carlos Agustí, Sergio Prieto, Marcelo Sánchez, Fernandez Hernández-Gonzáles, Jacobo Sellares

**Idiopathic pulmonary fibrosis and gastroesophageal reflux disease: A population-based case-control study**  
Mishbah Baqr (Rochester, United States of America), Ann Vu, Teng Moua, Amit Vasireddy, Alanna Chamberlain, Ryan Frank, Jay Ryu

**The relationship between GAP stage and quality of life in IPF and systemic sclerosis-related ILD is diagnosis-dependent**  
Michael Thomas Durheim (Eiksmarka, Norway), Anna-Maria Hoffman-Vold, Tomas Mikal Eagan, Arnt-Ove Hovden, May Brit Lund, Gisle Bjerke, Trygve Müller Jonassen, Odd Erik Johansen, Tone Sjåheim

**Factors associated with right ventricular dysfunction among patients with chronic hypersensitivity pneumonitis**  
Elena Leonova (Moscow, Russian Federation), Evgeny Shmelev, Elena Shergina

**Evaluation of cardiac function by echocardiography in patients with interstitial lung disease, divided by ILD group**  
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Valeria Ariadna Martínez Vázquez, Arturo Orea Tejeda, Dulce González Islas, Martha Elena Quintero Martínez, Rocío Sánchez Santillan, Yael Ramiro Gástelum Ayala, Oscar Ubaldo Martínez Reyna, Ilse Pérez García, Nathalie Martínez Luna, Leslie Verdeja Vendrell, Ivette Buendia Roldán, Maya Mejia Avila, Robinson Robles Hernández, Alejandra Velázquez Montes

**Prognostic significance of pathologically proven chronic fibrosing interstitial lung diseases with a progressive phenotype (PF-ILDs): single center retrospective cohort**  
Yukihiro Nakamura (nagaseone city, Japan), Takayuki Takimoto, Toru Arai, Naoko Takeuchi, Reiko Sugawara, Kanako Katayama, Shojoito Minomo, Chikatoshio Sugimoto, Kazunobu Tachibana, Masanori Akira, Tukahiko Kasai, Seiji Hayashi, Yoshikazu Inoue

**Criteria for PF-ILD in a cohort of patients with chronic hypersensitivity pneumonitis**  
Eduarda Salomé Soares Seixas (Lourosa, Portugal), Paula Serra, Margarida Ferreira, Renata Aguiar, Pedro Gonçalo Ferreira

**Prognostic characteristics in chronic hypersensitivity pneumonitis.**  
Daniel Neville (Portsmouth (Hampshire), United Kingdom), Thomas Jones, Abhinav Tiwari, Vanessa Titmuss, Anna Donaldson, K Suresh Babu
Longitudinal functional evaluation of interstitial lung disease in systemic sclerosis
Erik Palmer (Eger, Hungary), Veronika Müller, Anikó Bohács, Krisztina Vinceze, Noémi Eszes

Progressive phenotype in primary Sjögren’s syndrome-associated interstitial lung diseases: Prognostic significance
Reiko Sugawara (Osaka, Japan), Toru Arai, Chikatoshi Sugimoto, Kazunobu Tachibana, Masanori Akira, Takahiro Kasai, Seiji Hayashi, Yoshikazu Inoue

Six-Minute Walk Test in Interstitial Lung Disease: various outcomes for various causes
Khadija Ayed (Nabeul, Tunisia), Asma Chaker, Salma Mokaddem, Soumaya Khaldi, Saloua Benkhamsa Jameleddine

Short-term dynamic lung function and predictors of lung function decline in systemic sclerosis-related interstitial lung disease
Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpong

Comparative analysis of collagen quantification in the bleomycin mouse model of lung fibrosis
Maria Gloria Pittelli (PARMA (PR), Italy), Paola Caruso, Maria Laura Faietti, Vanessa Pitozzi, Silvia Pontis, Martina Bonatti, Barbara Pioselli, Caterina Frati, Denise Madeddu, Federico Quaini, Costanza Lagrasta, Maurizio Civelli, Silvia Catinella, Gino Villetti, Marcello Trevisani

Exhaled Volatile Organic Compounds are Able to Diagnose Systemic Sclerosis
Julien Guiot (Liège, Belgium), Delphine Zanella, Pierre-Hugues Stefanuto, Laurie Giltay, Monique Henket, Francoise Guissard, Catherine Moermans, Florence Schleich, Renaud Louis, Jean-Francois Focant

The Warrick score for the evaluation of chest CT scan manifestations of rheumatoid arthritis
Houda Snène (Tunis, Tunisia), Monia Attia, Hana Mrassi, Hana Blibeib, Nadia Mehri, Ahmed Laater, Nozha Ben Salah, Bechir Louzir

Idiopathic pulmonary fibrosis and systemic sclerosis-interstitial lung disease: features at admission to a tertiary pulmonology unit.
Serena Vettori (San Sebastiano al Vesuvio, Italy), Maurizia Lanza, Anna Annunziata, Rosa Cauteruccio, Antonietta Coppola, Valentina Di Spirito, Francesco De Simone, Sara Gioia, Pasquale Imitazione, Francesco Stefanelli, Giuseppe Fiorentino

Corticosteroids affect skeletal muscle strength in mild level of breathlessness of patients with interstitial lung disease
Masatoshi Hanada (nagasaki, Japan), Yuji Ishimatsu, Noriho Sakamoto, Hiroki Nagura, Masato Oikawa, Yosuke Morimoto, Hiroshi Mukae, Ryu Kozu

Exhaled breath olfactory signature of pulmonary arterial hypertension (PAH) and chronic thromboembolic pulmonary hypertension (CTEPH)
Sylvia Cohen-Kaminsky (Paris, France), Shay Sherbo, Zhen Wang, Etienne Marie Jutant, David Montani, Barbara Girerd, Edmund Lau, Laurent Becquemont, Yoav Y. Broza, Hossam Haick, Marc Humbert

Pharmacologic characterization of GB002, a novel inhaled PDGFR kinase inhibitor in development for pulmonary arterial hypertension (PAH)
Anna Galkin (San Diego, United States of America), Ravi Sitapara, Bryan Clemons, Eduardo Garcia, Michael Kennedy, Laura Carter, Debbie Sleee, Luisa Salter-Cid, Larry Zisman

GCN2 regulates BMP signaling: consequence for PVOD pathobiology and therapeutic management
Grégoire Manaud (Paris, France), Emilie Swietlik, Martin Wilkins

Smoking history and pulmonary arterial hypertension (PAH) onset and clinical outcomes (REVEAL)
Adaani Frost (Houston, United States of America), Carol Zhao, Harrison Farber, Raymond Benza, Mona Selej, Greg Elliott

Gut microbiota and pulmonary hypertension: a Mendelian randomization study
Yilin Chen (Guangzhou, China), Jing Liao, Tingting Zhang, Chenting Zhang, Kai Yang, Jian Wang

Multi-Omics Analysis of the PDGF Response in Pulmonary Vascular Smooth Muscle Cells from Patients with Pulmonary Arterial Hypertension: Implication of the NM DAR
FIRMIN AKOUMIA (Paris, France)
SERCA2a gene therapy ameliorates pulmonary hypertension in a pig model: comparison of different delivery methods and therapeutic effect
Olympia Bikou (New York, United States of America), Serena Tharakan, Kelly Yamada, Taro Kariya, Jaime Aguero, Kenneth Fish, Kiyotake Ishikawa

HDAC inhibitor quisinostat reduces pulmonary vascular remodeling in experimentally induced pulmonary arterial hypertension
Xiao-Qing Sun (Amsterdam, Netherlands), Eva L Peters, Ingrid Schalij, Frances S De Man, Marie-José Goumans, Kondababu Kurakula, Harm-Jan Bogaard

Regulation of Type I cytokine receptors as a target for pulmonary arterial hypertension treatment?
Etienne-Marie Jutant (Paris, France), Ly-Tu, Benjamin Le Vely, Raphael Thuillet, Marc Humbert, Christophe Guignabert, Alice Huertas

Loss of Bmp9 does not lead to spontaneous pulmonary hypertension, but attenuates vascular remodeling in experimental models
Ni nel BERREBEH (Le Plessis-Robinsonilliacoublay, France), Raphaël Thuillet, Ly Tu, Benjamin Le Vely, Amélie Cumont, Ignacio Anegon, Alice Huertas, Marc Humbert, Sabine Bailly, Christophe Guignabert

Role of c-Abelson in the loss of genome integrity in endothelial cells in pulmonary arterial hypertension
Benjamin Le Vely (Le Plessis-Robinson, France), Ni nel Berrebeh, Carole Phan, Raphael Thuillet, Marc Humbert, Alice Huertas, Christophe Guignabert, Ly Tu

Effect of zamicastat, a dopamine beta-hydroxylase inhibitor, on the monocrotaline rat model of pulmonary arterial hypertension
Eduardo Moura (S. Romão e S. Mamede, Portugal), Cristina Costa, Bruno Igreja, Nuno Pires, Vânia Batalha, Maria-Joao Bonifacio, Patricio Soares-Da-Silva

SUR1/Kir6.2 potassium channel a new actor involved in pulmonary arterial hypertension
Hélène Le Ribeuz (Paris, France), Mélanie Lambert, Angèle Boet, David Montani, Wendy K Chung, Marc Humbert, Fabrice Antigny

The modulatory effects of Nrf2 activators in a pulmonary arterial hypertension model
Jian Li (China), James Baker, Clare Murray, Nicky Cooper, Cathy Lucas, Dave Singh, Simon Lea

Hemodynamic and histological progression in the Sugen-Hypoxia Rat Model
Michel Corboz (Bridge water, United States of America), Sandra Gagnon, Annie Bouchard, C Brodeur, Charles E Laurent, Dany Salvail, David Cipolla, Walter R Perkins, Richard W Chapman

Effects of Long Term Exogenous Apelin Application in Experimental Pulmonary Hypertension Model Created with Monocrotaline
OND ER OZTURK (I sparta, Turkey), Rahime Aslankoc, Mustafa Saygin, Özlem Özmen, Y.Si̇nan Sirin

NGF induces pulmonary arterial hyperreactivity through connexin 43 increased expression
guillaume Cardouat (Talence, France), Matthieu Douard, Lukas Roubenne, Zuzana Kmecová, Paul Robillard, Christophe Guignabert, Ly Tu, Frederic Delcambe, Roger Martian, Bernard Muller, Christelle Guibert, Veronique Freund-Michel

Correlation between the cross-sectional area of the lung area and pulmonary haemodynamics in chronic thromboembolic pulmonary hypertension
Ayaka Kuriyama (Ichihara City, Japan), Hajime Kasai, Toshihiko Sugiura, Hiroshi Tajima, Yukiko Takahashi, Ayako Shigeta, Seiichiro Sakao, Koichiro Tatsumi

Agreement between transthoracic echocardiography and computed tomography pulmonary angiography for detection of right ventricular failure
Serhat Erol (Ankara, Turkey), Sumeyye Ayo z, Asli han Gurun Kaya, Fatma Ciftci, Aydin Ciledag, Zeynep Pinar Onen, Akin Kaya, Ozlem Ozdemir Kumbasar, Aysegul Gursoy, Melahat Kul

A multicentre observational study of the prevalence, management and outcomes of subsegmental pulmonary embolism
Christopher C. Huntley (Kingswinford (West Midlands), United Kingdom), Ketan Patel, Aishah Z Mughal, Vishnava Balbirsingh, Sunera Khan, Alice M Turner, Daniel S Lasserson, Michael Newnham

Pre-congress content Session 232 00:00 - 23:59
E-poster session: Epidemiology, diagnosis and management of pulmonary embolism
Disease(s): Pulmonary vascular diseases Respiratory critical care
Method(s): General respiratory patient care Respiratory intensive care Epidemiology Public health Imaging Cell and molecular biology Pulmonary function testing Transplantation
Chairs: Nousheen Akhter (Karachi, Pakistan)

Correlation between the cross-sectional area of the lung area and pulmonary haemodynamics in chronic thromboembolic pulmonary hypertension
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UTILITY OF THE SIMPLIFIED PESI SCALE IN ELDERLY PATIENTS WITH ACUTE SYMPTOMATIC PULMONARY THROMBOEMBOLISM  
Carmen Rodriguez Calle (Madrid, Spain), Diurbis Velasco Alvarez, Beatriz Pintado Cort, Andrea Perez Figuera, Edwin Mercedes Noboa, Francisco Xavier Leon Roman, David Jiménez Castro

Prognostic significance of computed tomography-assessed right ventricular enlargement in low-risk patients with pulmonary embolism: systematic review and meta-analysis.  
Beatriz Pintado Cort (Madrid, Spain), Andrea Pérez Figuera, Carmen Rodríguez Calle, Diurbis Velasco Alvarez, Diego Durán Barata, Ana Ana Retegui García, David Jiménez Castro

Venous thromboembolism in solid-organ transplant recipients: findings from the RIETE registry.  
Alberto García Ortega (Valencia, Spain), Raquel López Reyes, Gabriel Anguera De Francisco, Grace Oscullo Yépez, Remedios Otero Candelera, Manuel López-Meseguer, Andrés Quezada, Luis Jara-Falomares, Manuel Monreal

In-vitro modeling of micro-emboli and their effect on microvascular circulation and endothelium mechanics  
Lucilla Piccari (Barcelona, Spain), Andrea Malandrino, Diego A Rodríguez, James Sharpe

Efficacy of age adjusted d-dimer in excluding pulmonary embolism in patients with cancer.  
Ahsan Zahid (Stoke-on-Trent, United Kingdom), Raisa Khan, Arhum Baloch, Sana Shahzad, Muhammad Badar Ganaie

Does platelet index examination provide clinical benefit in coexistence of pulmonary thromboembolism and cancer?  
Nesrin Ocal (Ankara, Turkey), Ramazan Ocal

Dismantling the Obesity Paradox in Acute Pulmonary Embolism  
Kam S Ho (New York, United States of America), Shabnam Nasserifar, Paaras Kohli, Joseph Poon, Yasmin Herrera, Archana Pattupara, Andre Sotelo, Raymonde Jean

The profile of lung scintigraphy in systemic lupus erythematosus with chronic pulmonary embolism: a cross-section  
Flávia Marín (Pato Branco, Brazil), Sonia Moriguchi, Katica Koga, Robson Prudente, Karina Malagutte, Silmeia Bazan, Luis Cuadrado, Hugo Yoo

Could pulmonary thromboembolism be associated with air pollution?  
Merve Atilgan Ala (Izmir, Turkey), Ali Calisir, Onay Furtun, Ali Karadeniz, Baris Ozkilic, Bahar Samli, Murat Yilmaz, Asli Suner Karakulah, Abdullah Sayiner

Hypercoagulability in patients with stable COPD assessed by coagulation factor levels  
Chris Kyriakopoulos (Ioannina, Greece), Christos Chronis, Athena Tatsioni, Evangelia Papapetrou, Athena Gogali, Katerina Vaggeli, Christos Katsanos, Christina Tsaousi, Charikleia Tsalepi, Alekos Charisis, Maria Kosta, Aggeliki Spanou, Konstantinos Kostikas, Athanasios Konstantinidis

Venous thromboembolism prophylaxis in hospitals in China: a nationwide survey  
Kaiyuan Zhen (Beijing, China), Fen Dong, Qian Gao, Cunbo Jia, Zhenguo Zhai

Identification of patients with intermediate-high-risk PE with poor evolution  
Marta Acosta Davila (Valencia, Spain), Sergio Calvache Castillo, Cristina De Juan Izquierdo, Alberto Herrejón Silvestre, Ildefonso Furass Carrasco

Hokusai post-PE study: a follow-up study on long-term outcomes of pulmonary embolism in patients treated with edoxaban vs warfarin  
Wim Boersma (Alkmaar, Netherlands), Ingrid Bistervels, Roisin Bavalia, Karina Meijer, Peter Verhamme, Hugo Ten Cate, Jan Beyer-Westendorf, Sebastian Schellong, Barbara Hutten, Michael Kovacs, Marco Cattaneo, Waleed Ghanima, Amanda Hugman, Michiel Coppens, Marije Ten Wolde, Dominique Stephan, Nicolas Falvo, Dominique Brisot, Isabelle Quere, Saskia Middeldorp

Intermediate High Risk (IHR) PE: The value of a PE Lysis Team (PELT)  
Charlotte Carter (London, United Kingdom), Thomas Mason, Boris Lams, Bhashkar Mukherjee, Narayan Karunanithy, Beverley Hunt, Karen Breen, Alex West

TEMPORAL RESOLUTION OF RIGHT VENTRICULAR DYSFUNCTION IN PATIENTS WITH ACUTE SYMPTOMATIC PULMONARY EMBOLISM  
Andrea Carolina Perez Figuera (Madrid, Spain), Beatriz Pintado, Edwin Mercedes, Francisco León, Carmen Rodríguez, Diurbis Velasco, Ana Retegui, Diego Durán, David Jiménez

Pre-congress content Session 233 00:00 - 23:59

E-poster session: COVID-19 clinical studies
Disease(s): Respiratory critical care
Method(s): General respiratory patient care Respiratory intensive care Epidemiology Public health Imaging
Chairs: Lieuwe D.J. Bos (Amsterdam, Netherlands), Gregor S. Zimmermann (München, Germany)
Jan van Meerbeeck (Edegem (Antwerp), Belgium), Anne Marie Dingemans, Leora Horn, Valter Torri, Jennifer Whisenant, Heather Wakelee, Solange Peters, Marina Garassino, Jacques Cadranel, Joanna Chorostowska

Late Breaking Abstract - Demographic characteristics of patients with COVID-19 admitted to a North East London NHS Trust
Kiran Desai (Chelmsford, United Kingdom), Daryl Cheng, Claire Calderwood, Anastasia Otamas, Natasha O'Sullivan, Adam Ainley

Late Breaking Abstract - Corticosteroids reduce mortality and prevent ICU admission in Covid-19 pneumonia - results from a rapid clinical review of 191 patients
Joanne Heaton (Warrington (Cheshire), United Kingdom), Puneet Malhotra, Paul Stockton, Laurie Rossiter

Late Breaking Abstract - CNN-RNN network to classify COVID, Influenza and non-infectious cases on CT imaging
Akshaya A Vaidyantahan (Liege, Belgium), Julien Guiot, Fadila Zerka, Primakov Sergey, L Deprez, D Danthine, G Canivet, P Lambin, S Walsh, P Meunier, Wim Vos, R.T.H Leijenaar, P Lovinfosse

Late Breaking Abstract - Knowledge, anxiety and use of hydroxychloroquine prophylaxis among healthcare students and professionals regarding COVID-19 pandemic in India: An observational cross-sectional study
Avneet Garg (Mansa (Punjab), India), Vinita Jindal, Tanvir Siddhu, Avtar Singh Bansal, Prabhjot Kaur, Gurmeet Kaur, Hem Chandra Sati

Late Breaking Abstract - Clinical variation in presenting characteristics of COVID-19 at St George's Hospital, London
Jessica Gates (Tunbridge Wells, United Kingdom), Dagan Lonsdale, Ashwini Maudhoo, Ashwin Sundaram, Joseph Salem, Victoria Taylor, Emma Lombard, Hannah Gardner, Natasha Benons, Anne Dunleavy, Adrian Draper, Yee-Ean Ong

Late Breaking Abstract - Co-infections, an unexplored branch in the COVID-19 pandemic.
David Noivo (Peniche, Portugal), Ana Alfaiaate, Vera Clerigo, Ligia Fernandes, Margarida Castanho, Susana Sousa, Vera Durão, Fernando Durão, Paula Duarte

Late Breaking Abstract - Continuous positive airway pressure (CPAP) as an intervention for acute hypoxia in not-for-escalation (NFE) COVID-19 pneumonia patients: a single-centre observational study with retrospective cohort analysis
Jake Cowen (Liverpool, United Kingdom), Thomas Humphries, Rebecca Talbutt, Briony Dean, Laura White, Alexander Jackson, Paul Plant, Nick Duffy

Late Breaking Abstract - Impact of an improvised system on preserving oxygen supplies in patients with COVID-19.
William Poncin (Bruxelles, Belgium), Lia Baudet, Gregory Reyehler, Frederic Duprez, Giuseppe Liistro, Leila Belkhir, Lucie Pothen, Hall Yildiz, Jean-Cyr Yombi, Julien De Greff

Late Breaking Abstract - Atypical clinical and radiological presentation of SARS-CoV-2 infection in the elderly.
Antonella Arcadu (Forlì (FC), Italy), Silvia Puglisi, Alessandra Dubini, Sara Piciucchi, Fabio Sultani, Sabrina Martinello, Lara Bertolovic, Stefano Oldani, Luca Donati, Christian Gurioli, Claudia Ravaglia, Venerino Peletti

Late Breaking Abstract - Risk factors of mortality for COVID-19 patients in a North East London cohort: a retrospective analysis
Daryl Cheng (London, United Kingdom), Kiran Desai, Claire Calderwood, Anastasia Otamas, Natasha O'Sullivan, Adam Ainley

Late Breaking Abstract - Validation of a clinical score predictive of SARS-CoV-2 infection in pneumonia inpatients
Ana Catarina da Silva Alfaiaate (Lisboa, Portugal), David Noivo, Vera Clerigo, Vera Durão, Margarida Castanho, Susana Sousa, Fernando Durão, Paula Duarte

Late Breaking Abstract - Increased risk of pulmonary embolism in patients with radiological severe COVID-19 pneumonia
Cristiano van Zeller (London, United Kingdom), Claudette Phillips, Adrian Draper, Michael Bridgett, Yee-Ean Ong, Sisa Grubnic

Pre-congress content  Session 234  00:00 - 23:59
Expert view: Challenge and success in a patient centered Clinical Research Collaboration
Aims: To understand how physicians and patients manage to work and communicate together in the purpose of producing a successful Clinical Research Collaboration; to discuss how physicians and patients manage to keep the same aims and visions.
Pre-congress content  Session 235  00:00 - 23:59
Expert view: Palliative care in tuberculosis
Aims: To describe the aims of medical and palliative care; to contrast sociological and biological explanations of tuberculosis as a disease and define patient-centred care; to answer the question « How do people die from tuberculosis? »; to match palliative care to the different modes and duration of dying from tuberculosis (case illustrations).
Disease(s): Respiratory infections
Method(s): General respiratory patient care  Palliative care  Public health
Tag(s): Clinical
Target audience: Clinical researcher, Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Nurse, Paediatrician, Patient, Medical Student, Respiratory therapist, Respiratory physiotherapist
Challenge and success in a patient centered Clinical Research Collaboration
Dominique Hamerlijnck (Amsterdam, Netherlands), Ratko Djukanovic (Southampton (Hampshire), United Kingdom)
00:00  3597

Pre-congress content  Session 236  00:00 - 23:59
Expert view: Replacement of animal models in respiratory medicine
Aims: To describe and highlight the use of animal-free methods in respiratory research. Animal experiments have been widely used in respiratory research, and have provided important information. In the last decade, numerous in vitro, ex-vivo and in-silico methods and models have been developed that are useful in respiratory research and that can at least in part replace animal models. This is important not only in view of the ethical issues concerning the use of animal models, but also because of the difficulty in translating observations made in animals to the human situation.
Disease(s): Airway diseases  Interstitial lung diseases  Thoracic oncology
Method(s): Cell and molecular biology
Tag(s): Basic science
Target audience: Pathologist, Scientist (basic, translational)
Replacement of animal models in respiratory medicine
Pieter S. Hiemstra (Leiden, Netherlands)
00:00  3599

Pre-congress content  Session 237  00:00 - 23:59
Expert view: Preprints: growth and evolution in the medical publishing space
Aims: To introduce and explain the increasing role of preprints in medical publishing.
Tag(s): Translational
Target audience: Clinical researcher, Paediatrician, Adult pulmonologist/Clinician, Scientist (basic, translational), Medical Student, Journalist
Preprints: growth and evolution in the medical publishing space
Martin Kolb (Hamilton (ON), Canada)
00:00  3600

Pre-congress content  Session 238  00:00 - 23:59
Expert view: Lung cancer or cancer of the lung
Aims: To be able to name and compare advantages and challenges of the holistic versus the fragmented care pathways of lung cancer; to discuss who should be in charge of the care of lung cancer patients and whether pulmonologists are enough trained into the art of modern oncology to keep pace with a rapidly changing spectrum of molecular tests and targeted treatments.
Disease(s): Thoracic oncology
Method(s): Surgery  Imaging  Endoscopy and interventional pulmonology
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Pathologist, Radiologist, Thoracic oncologist, Thoracic surgeon

00:00  Lung cancer or cancer of the lung: a view from the bridge
Pieter E. Postmus (LEIDEN, Netherlands) 3601

Pre-congress content  Session 239  00:00 - 23:59

Expert view: Changing to Global Lung Function Initiative (GLI) reference will help my patient

Aims: To enable clinicians to understand the important issues around reference values in lung function and how adopting the relatively new GLI values together with LLN will alter diagnosis of lung disorders in certain patient groups; to outline what are the weaknesses and strengths of GLI reference values; to explore what is the future for GLI reference values.

Disease(s): Airway diseases  Interstitial lung diseases  Paediatric respiratory diseases
Method(s): General respiratory patient care  Physiology  Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Nurse, Paediatrician, Physiologist, Scientist (basic, translational)

00:00  Changing to Global Lung Function Initiative (GLI) reference will help my patient
Brendan Cooper (Edgbaston (Birmingham), United Kingdom) 3602
### Channel 1  
**Session 241**  
**09:00 - 09:30**  


**Aims:** This opening keynote will outline the current situation, timeline and key events related to the unprecedented and ongoing coronavirus global pandemic.

**Method(s):** Public health

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Physician in Pulmonary Training, Scientist (basic, translational), Respiratory therapist, Respiratory critical care physician, Thoracic oncologist

**Chairs:** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Anita Simonds (London, United Kingdom)

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<tr>
<th>Time</th>
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<td>09:00</td>
<td><strong>COVID-19 overview, timeline and key events</strong></td>
<td>Tobias Welte (Hannover, Germany)</td>
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<td>09:20</td>
<td>Discussion and questions and answers</td>
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### Channel 1  
**Session 242**  
**09:40 - 10:40**  

**COVID-19: Basic science**

**Aims:** This session will explain the basic science behind the SARS CoV 2 virus, covering factors from the structure, viral entry, genomic epidemiology, immune response, and lung effects.

**Key references:**

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

**Tag(s):** Basic science

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Paediatrician, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Physician in Pulmonary Training

**Chairs:** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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<tr>
<td>09:40</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>09:50</td>
<td><strong>Virus biology (structure and viral entry)</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>10:00</td>
<td><strong>Virus biology (genomic epidemiology of virus)</strong></td>
<td>Marion Koopmans (Rotterdam, Netherlands)</td>
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<td>10:10</td>
<td><strong>Host response (immune response)</strong></td>
<td>Tracy Hussell (Manchester (Greater Manchester), United Kingdom)</td>
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<td>10:20</td>
<td><strong>Host response (airway/lung effects)</strong></td>
<td>Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom)</td>
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<tr>
<td>10:30</td>
<td><strong>Discussion and questions and answers</strong></td>
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### Channel 1  
**Session 243**  
**10:50 - 11:50**  

**COVID-19: Epidemiology**
Aims: This session will discuss the evolving epidemiology of coronavirus disease 2019 (COVID-19), covering the global view from the World Health Organisation (WHO), updates on symptom tracking, risk factors and the severity biomarkers post infection.

Key references:


Method(s): Epidemiology  Public health
Tag(s): Basic science
Chairs: Daiana Stolz (Basel, Switzerland)

10:50 Introduction

11:00 European and world-view
Nahoko Shindo (Geneva, Switzerland)

11:10 Tracking symptoms
Speaker to be confirmed

11:20 Risk factors for severe COVID-19, evidence from the ISARIC Coronavirus Clinical Characterisation Consortium
Malcolm (Calum) Semple (Liverpool, United Kingdom)

11:30 Severity biomarkers once infected
Eva Polverino (Barcelona, Spain)

11:40 Discussion and questions and answers

COV3611
COV3612
COV3613
COV3614
COV3615
COV3616

COV19-19: Management prevention

Aims: This session will explain the public health approaches recommended by the European Centre for Disease Prevention and Control (ECDC) including surveillance, epidemic intelligence, response, preparedness, training, and communication. This session will also describe the different vaccine approaches (whole-virus, genetic, viral vector, protein based) and highlight key vaccine clinical trials currently underway.

Key references:

Tag(s): Basic science, Translational, Clinical
Chairs: Tobias Welte (Hannover, Germany)

12:00 Introduction

12:10 Public health approaches
Pasi Penttinen (Stockholm, Sweden)

12:20 Strategies for vaccines - immuno-preservation and risk of re-infection
Peter Openshaw (London, United Kingdom)

12:35 Vaccines - early clinical trials
Speaker to be confirmed

12:50 Discussion and questions and answers

COV3617
COV3618
COV3619
COV3620
COV3621
ERS 2020 International Congress
DETAILED PROGRAMME
SUNDAY 06 SEPTEMBER, 2020

Channel 1  Session 245  13:15 - 14:15
Assembly members' meeting: Assembly 1: General pneumology
Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Laura Fregonese (London, United Kingdom), Frits M.E. Franssen (Horn, Netherlands), Janwillem W. H. Kocks (Groningen, Netherlands), Vitalii Poberezhets (Vinnystia (Ukraine), Lowie G.W. Vanfleteren (Gothenburg, Sweden)

13:15  Presentation by Assembly Officers
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

Channel 2  Session 246  13:15 - 14:15
Assembly members' meeting: Assembly 2: Respiratory intensive care
Chairs: Marcus Schultz (Amsterdam, Netherlands), Leo Heunks (Amsterdam, Netherlands), Christian Karagiannidis (Cologne, Germany), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Maxime Patout (Mont-Saint Aignan, France)

13:15  Presentation by Assembly Officers
Leo Heunks (Amsterdam, Netherlands)

Channel 3  Session 247  13:15 - 14:15
Assembly members' meeting: Assembly 3: Basic and translational sciences
Chairs: Catherine Greene (Dublin 9, Ireland), Silke Meiners (München, Germany), Aurelie Fabre (Dublin 4, Ireland), H. Irene Heijink (Groningen, Netherlands), Agnes W. Boots (Maastricht, Netherlands), Niki Ubags (Epalinges, Switzerland)

13:15  Presentation by Assembly Officers
Catherine Greene (Dublin 9, Ireland)

Channel 4  Session 248  13:15 - 14:15
Assembly members' meeting: Assembly 4: Sleep and breathing disorders; and clinical physiology
Chairs: Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris, France), Samuel Vergès (Grenoble, France), Sophia E. Schiza (Heraklion, Greece), Andrea Crespo Sedano (Vallodolid, Spain)

13:15  Presentation by Assembly Officers
Andrea Aliverti (Milan, Italy)

Channel 5  Session 250  13:15 - 14:15
Assembly members' meeting: Assembly 6: Epidemiology and environment
Chairs: Christer Janson (Uppsala, Sweden), Charlotte Suppli Ulrik (Virum, Denmark), Joan B Soriano (Madrid, Spain), David Fishwick (Sheffield (South Yorkshire), United Kingdom), Sofia Belo Ravara (Covilhã, Portugal), Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom), Andre F.S. Amaral (London, United Kingdom)

13:15  Presentation by Assembly Officers
Christer Janson (Uppsala, Sweden)

Channel 6  Session 251  13:15 - 14:15
Assembly members' meeting: Assembly 7: Paediatrics
Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jonathan Grigg (London, United Kingdom), Refika Hamutcu Ersu (Ottawa, Canada), Sejal Saglani (London, United Kingdom), Jürg Barben (St. Gallen, Switzerland), Marijke Proesmans (Leuven, Belgium), Theodore Dassios (Beckenham (Kent), United Kingdom), Liesbeth Duijts (Rotterdam, Netherlands), Deborah Snijders (Ponzano Veneto (TV), Italy), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)

13:15  Presentation by Assembly Officers
Jonathan Grigg (London, United Kingdom)

Channel 7  Session 256  13:15 - 14:15
Assembly members' meeting: Assembly 12: Interstitial lung diseases
Chairs: Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany), Elisabetta Renzoni (London, United Kingdom), Hilario Nunes (Bobigny, France), Francesco Bonella (Düsseldorf, Germany), Tiago Alfaro (Coimbra, Portugal)

13:15  Presentation by Assembly Officers
Venerino Poletti (Forlì, Italy)
Channel 5  
Session 249  
14:30 - 15:30

Assembly members' meeting: Assembly 5: Airway diseases, asthma and COPD

**Chairs:** Omar S. Usmani (London, United Kingdom), Antonio Spanevello (Milan, Italy), Dave Singh (Manchester, United Kingdom), Florence Schleich (Liège, Belgium), Marco Idzko (Wien, Austria), Apostoios Bossios (Stockholm, Sweden), Carolina Gotera (Madrid, Spain)

14:30  
**Presentation by Assembly Officers**  
Antonio Spanevello (Milan, Italy)  
3626

Channel 1  
Session 252  
14:30 - 15:30

Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation

**Chairs:** Federica Meloni (Pavia (PV), Italy), Stefano Elia (Roma (RM), Italy), Marcello Migliore (Catania (CT), Italy), Robin Vos (Leuven, Belgium), Merel E. Hellemons (Rotterdam, Netherlands)

14:30  
**Presentation by Assembly Officers**  
Stefano Elia (Roma (RM), Italy)  
3629

Channel 2  
Session 253  
14:30 - 15:30

Assembly members' meeting: Assembly 9: Allied respiratory professionals

**Chairs:** Martijn A. Spruit (Horn, Netherlands), Daniel Langer (Leuven, Belgium), Aisling McGowan (Dublin 15, Ireland), Chris Burtin (Diepenbeek, Belgium), Andreja Sajnic (Zagreb, Croatia), Jana De Brandt (Diepenbeek, Belgium)

14:30  
**Presentation by Assembly Officers**  
Martijn A. Spruit (Horn, Netherlands)  
3630

Channel 3  
Session 254  
14:30 - 15:30

Assembly members' meeting: Assembly 10: Respiratory infections

**Chairs:** Eva Polverino (Barcelona, Spain), Graham H. Bothamley (London, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal), Cristina Calarasu (Craiova (Dolj), Romania)

14:30  
**Presentation by Assembly Officers**  
Graham H. Bothamley (London, United Kingdom)  
3631

Channel 4  
Session 255  
14:30 - 15:30

Assembly members' meeting: Assembly 11: Thoracic oncology

**Chairs:** Torsten Gerriet Blum (Berlin, Germany), Jan van Meerbeeck (Edegem (Antwerp), Belgium), Rudolf M. Huber (Munich, Germany), Najib M. Rahman (Oxford, United Kingdom), Adrien Costantini (Paris, France)

14:30  
**Presentation by Assembly Officers**  
Jan van Meerbeeck (Edegem (Antwerp), Belgium)  
3632

Channel 6  
Session 257  
14:30 - 15:30

Assembly members' meeting: Assembly 13: Pulmonary vascular diseases

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Marion Delcroix (Leuven, Belgium), Olivier Sibth (Le Kremlin-Bicêtre, France), David Jimenez Castro (Madrid, Spain), Harm Jan Bogaard (Amsterdam, Netherlands), Sheila Ramjug (Altrincham, United Kingdom)

14:30  
**Presentation by Assembly Officers**  
Marion Delcroix (Leuven, Belgium)  
3634

Channel 7  
Session 258  
14:30 - 15:30

Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy

**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Walter De Wever (Leuven, Belgium), Prashant Nemichand Chhajed (Mumbai, India), Simon Walsh (London, United Kingdom), Christian B. Laursen (Odense, Denmark), Daniela Gompelmann (Heidelberg, Germany)

14:30  
**Presentation by Assembly Officers**  
Jouke T. Annema (Amsterdam, Netherlands)  
3635

Channel 1  
Session 259  
15:40 - 16:40

COVID-19: Management
**Aims:** This session will explain the most up-to-date advice for the clinical management of patients with COVID-19, including respiratory support and the pharmacological management.

**Key references:**

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

**Method(s):** Respiratory intensive care

**Tag(s):** Basic science

**Chairs:** Leo Heunks (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)

**Channel 1  Session 260  16:50 - 17:50**

**COVID-19: Impact in children and in adults with premorbid respiratory disease (acute and long-term)**

**Aims:** COVID-19 can affect anyone, and the disease can cause symptoms ranging from mild to severe. This session will discuss the impact for patients with pre-existing respiratory disease including how children react to the virus, ILD, lung cancer, and airways disease.

**Tag(s):** Basic science

**Chairs:** Fabio Midulla (Roma (RM), Italy), Katerina Antoniou (Heraklion, Greece)

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<tr>
<td>16:50</td>
<td>Introduction</td>
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<tr>
<td>17:00</td>
<td>Children</td>
<td>Alexander Möller (Zürich, Switzerland)</td>
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<td>17:10</td>
<td>ILD</td>
<td>Sergio Harari (Milano (MI), Italy)</td>
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<td>17:20</td>
<td>Lung cancer</td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<td>17:30</td>
<td>Airways disease</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<td>17:40</td>
<td>Discussion and questions and answers</td>
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**Channel 1  Session 261  18:00 - 19:00**

**COVID-19: Post-COVID**
**Aims:** As COVID-19 was only recently discovered, the long-term effects are still relatively unknown, researchers are looking into parallels with other diseases and trialling long-term management options. This session will explore the current care pathways, rehabilitation options, long-term impact on the lung, risks of re-infection and palliative care.

**Method(s):** Palliative care  Pulmonary rehabilitation  General respiratory patient care

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

**Chairs:** Thierry Troosters (Leuven, Belgium), Anita Simonds (London, United Kingdom)

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<tr>
<td>18:00</td>
<td>Introduction</td>
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<td>18:10</td>
<td>Care pathways and virtual consultations</td>
<td>Ioannis Vogiatzis (Newcastle upon Tyne, UK)</td>
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<td>18:20</td>
<td>Rehabilitation recovery</td>
<td>Sally J. Singh (Leicester, UK)</td>
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<td>18:30</td>
<td>Long-term impact the lung and beyond</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<td>18:40</td>
<td>Palliative care</td>
<td>Daisy J.A. Janssen (Horn, Netherlands)</td>
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<tr>
<td>18:50</td>
<td>Discussion, question and answers and closing</td>
<td>Thierry Troosters (Leuven, Belgium), Anita Simonds (London, UK)</td>
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</table>
Language session: Chinese programme 2020: Part I
Joint ERS/CTS session

**Aims:** To allow experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine to describe new advances in respiratory medicine; and to present an overview of respiratory diseases, including early diagnosis, public health, sleep, and pulmonary embolism, in Europe and China.

This programme will be available in Chinese and English.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Scientist (basic, translational), Thoracic oncologist

**Chairs:** Rongchang Chen (Guangzhou (Guangdong), China), Aye Arzu Yorganculu (Izmir, Turkey)

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<th>09:30</th>
<th>Introduction</th>
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<td>09:35</td>
<td>Strategy for early diagnosis and intervention in chronic respiratory disease</td>
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<td>Nanshan Zhong (Guangzhou (Guangdong), China)</td>
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<td>09:45</td>
<td>Global Alliance Against Chronic Respiratory Diseases (GARD): Beijing call to action to promote lung health</td>
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<td>Chen Wang (Beijing, China)</td>
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<td>09:55</td>
<td>A randomized, controlled, open-label study to evaluate the efficacy and safety of oral lopinavir-ritonavir in adults hospitalized with COVID-19 virus infection</td>
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<td>BIN CAO (BEIJING, China)</td>
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<td>10:05</td>
<td>Lessons shared and perspectives in mechanical ventilation for COVID-19</td>
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<td>Anita Simonds (London, United Kingdom)</td>
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<td>10:15</td>
<td>ERS advocacy priorities: air pollution, lung cancer screening, new nicotine delivery products and others</td>
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<td>Ayse Arzu Yorgancoglu (Izmir, Turkey)</td>
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<td>10:25</td>
<td>Outdoor air pollution and the burden of childhood asthma across Europe</td>
<td>3687</td>
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<td>David Rojas-Rueda (fort collins, United States of America)</td>
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<td>10:35</td>
<td>Discussion and Q&amp;A</td>
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**Channel 2  Session 268  09:30 - 10:30**

Oral presentation: Asthma pharmacology: clinical trials and mechanistic insights

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care  Cell and molecular biology  Epidemiology  Pulmonary function testing

**Chairs:** Charlotte Suppli Ulrik (Virum, Denmark), Renaud Louis (Liège, Belgium)

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<th>3689</th>
<th>Introduction</th>
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<td>3690</td>
<td>Late Breaking Abstract - Efficacy of CSJ 117 on allergen-induced asthmatic responses in mild atopic asthma patients</td>
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<td>Gail Gauvreau (Hamilton (ON), Canada), Jens Hohlfeld, Louis-Philippe Boulet, Donald Cockcroft, Beth Davis, J Mark Fitzgerald, Stephanie Korn, Oliver Kornmann, Richard Leigh, Irvin Mayers, Hendrik Watz, Sarah Grant, Monish Jain, Maciej Cabanski, Peter Pertel, Ieuan Jones, Jean Lecot, Paul O'Byrne</td>
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Late Breaking Abstract - Target populations for type 2 asthma biologics in a real-life population in Spain (BRAVO 2)
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ana Sogo Sagardia, Daniel-Ross Monserrate Mitchell, Antoni Sicras Mainar, Aram Sieras Navarro, Clara Engroba Teijeiro

Late Breaking Abstract - Cardiovascular adverse events of drugs targeting IL-5 in severe asthma: a pharmacovigilance study
Jean Baptiste Quinta (Le Lamentin, Martinique), François Montastruc, Vanessa Rousseau, Agnès Sommet, Anthony Touafchia, Michel Galimier, Laurent Guillenmault

Pharmacogenetics of inhaled corticosteroid response in adults with asthma
Mohamed Ahmed Edris (Belgium), Emelmy De Roos, Michael Mcgeachie, Katia Verhamme, M. Arfan Ikram, Guy Brusselle, Kellan Tantisira, Carlos Iribarren, Meng Lu, Ann Wu, Bruno Stricker, Lies Lahousse

Benralizumab restored expression of key molecules involved in steroid-resistance in patients with severe asthma
Keita Hirai (Shizuoka, Japan), Toshihiro Shirai, Taisuke Akamatsu, Sekiko Uehara, Yuka Rachi, Kanami Tamura, Yutaro Kishimoto, Mika Saigusa, Kazuhiro Asada, Kunihiko Itoh

Does airway microbiology predict response to azithromycin in severe asthma? Analysis of the AMAZES trial
Steven Taylor (Bedford park, Australia), Kerry Ivey, Peter Gibson, Jodie Simpson, Geraint Rogers

Bronchial thermoplasty may increase steroid sensitivity by upregulating the expression of the glucocorticoid receptor
Liang Zhou (Basel, Switzerland), Liang Zhou, Lei Fang, Daiana Stolz, Michael Tamm, Michael Roth

Inflammatory phenotypes of asthma determine effect of inhaled corticosteroids on anti-viral immunity
Mandy Menzel (Lund, Sweden), Juan José Nieto-Fontarigo, Morten Hvidfeldt, Samuel Corps, Sangeetha Ramu, Asger Sverrild, Celeste Porsbjerg, Lena Uller

The effect of inhaled corticosteroids on airway mast cells in type 2 low asthma
Morten Hvidfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole Nielsen, Daisy Borneus, Carl-Magnus Claussen, Jonas S Erjefält, Celeste Porsbjerg

Risankizumab in severe asthma: A Phase IIa, placebo-controlled study
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Parameswaran Nair, Renaud Louis, Dave Singh

Introduction

LSC - 2020 - Epithelial-mesenchymal transition induced by cigarette smoke in lung epithelial cells is associated with metabolic reprogramming and senescence
Serena Di Vincenzo (Palermo (PA), Italy)

LSC - 2020 - Fluorescence-activated cell sorting of senescent fibroblasts
Catherine Wrench (London, United Kingdom)

LSC - 2020 - Investigating the effect of Z alpha-1 antitrypsin expression on mitochondrial injury
Arlene Glasgow (Dublin 9, Ireland)

LSC - 2020 - Altered metabolic activity and redox balance are associated with a proliferative phenotype in COPD airway smooth muscle cells.
Charalambos Michaeloudes (London, United Kingdom)

Metabolic differences in bronchial epithelium from asthma patients and impact of bronchial thermoplasty
Aibashl Ravi (Leiden, Netherlands), Annika Goosenberg, Annemieck Dijkhuis, Barbara Dierdorp, Tamara Dekker, Yanaika Sabogal Piñeros, Peter J. Sierck, Frédéric Vaz, Jouke Annema, Peter Bonta, Rene Lutter

Altered iron metabolism and elevated cellular senescence in COPD small airway epithelial cells
Impaired NK activity in the IPF lungs.
Tamara Cruz (Barcelona, Spain), Minxue Jia, Tracy Tabib, John Sembrat, Nayra Cardenes, Tullia Bruno, Ana Mora, Robert Lafayatis, Takis Benos, Mauricio Rojas

Discussion

Channel 4  Session 270  09:30 - 10:30

Oral presentation: New clinical insights into idiopathic pulmonary fibrosis
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Interstitial lung diseases
Method(s): Imaging  Public health  General respiratory patient care  Epidemiology  Cell and molecular biology
Chairs: Wim A Wuys (Leuven, Belgium), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

3710 Introduction

Late Breaking Abstract - Combinative analysis of RNA-seq and proteomics reveals potential molecular targets in TGF-beta1-induced fibroblast-myofibroblast transition
Zheng Wang (China), Li Meng, Zhang Jining, Shang Junyi, Zhang Quncheng, An Yunxia, Zhang Xiaojiao

Monounsaturated Fatty Acid diet associates less gastrointestinal adverse events of pirfenidone: phase IV clinical trial
Eva Fontanilles Arbones (Hospitalet de Llobregat, Spain), Carlo Vancheri, Marlies Wijsenbeek, Katerina Antoniou, Pilar Rivera, Francesco Bonella, Elisabeth Renzoni, Anne-Marie Anne-Marie, Vanesa Vicens-Zygmunt, Guillerumo Suarez-Cuartin, Jordi Dorca, Josep Palma, Anna Bachs, Victoria Avilés, Christian Tébè, Jess Shull, Maria Molina Molina

To be or not to be - the uncertainty of PF-ILD
Michael Kreuter (Heidelberg, Germany), Nicolas Kahn, Francesca Maria Sambataro, Claus Heussel, Gianluca Sambataro, Carlo Vancheri, Sebastiano Emanuele Torrisi

Genetic susceptibility and manifestation of progressive fibrosing interstitial lung diseases.
Martina Stercelová (Praha, Czech Republic), Kateřina Sikorova, Martin Petrek, Martina Vasakova

Historical eye on idiopathic pulmonary fibrosis: redefining the mortality scenario.
Sara Tomassetti (Florence, Italy), Claudia Ravaglia, Athol Wells, Martina Marchi, Antonella Arcadu, Silvia Puglisi, Luca Donati, Alessandra Dubini, Sara Picucci, Jay Ryu, Catherine Klersy, Venerino Poletti

Development of an artificial intelligence software to detect interstitial pneumonias
Hirotaka Nishikiori (Sapporo, Japan), Hirofumi Chiba, Kenichi Hirota, Tomohiro Suzuki, Seiwa Honda, Naoya Yama, Kimiyuki Ikeda, Yuki Mori, Yuichiro Asai, Naomi Koyama, Koji Kuronuma, Masamitsu Hatakenaka, Hiroki Takahashi

Discussion

Channel 5  Session 271  09:30 - 10:30

Oral presentation: New insights into mechanical ventilation in the intensive care unit
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Respiratory critical care  Airway diseases
Method(s): Respiratory intensive care  Epidemiology  Public health  Cell and molecular biology
Chairs: Christian Karagiannidis (Cologne, Germany), Ignacio Martin-Loeches (Dublin, Ireland)

3718 Introduction

Late Breaking Abstract - Positive end-expiratory pressure affects geometry and function of the human diaphragm
Diana Jansen (Herpen, Netherlands), Ammemijn H. Jonkman, Heder J. De Vries, J. Tim Marcus, Coen A. C. Ottenheijm, Leo M. A. Heunks

Late Breaking Abstract - Mesenchymal stromal cells as a salvage treatment for persistent ARDS
Haijin Lyu (China), Jianrong Liu, Xiaomeng Yi, Xiaofeng Yuan, Yuling An, Xuxia Wei, Yanhong Wang, Ying Xian, Huimin Yi

Gender differences in tidal volume limitation - an ICU database analysis
Pien Swart (Amstelveen, Netherlands), Marcus J Schultz, Ary Serpa Neto

Diversity of the lung mycobiome is associated with severity of disease in acute respiratory distress syndrome
Noel Britton (Pittsburgh, United States of America), Georgios Kitsios, Adam Fitch, Barbara Methe, Bryan Meverry, Alison Morris
Time to advanced airway management and neurologically favorable survival after out-of-hospital cardiac arrest
Tatsuma Fukuda (Okinawa, Japan), Naoko Ohashi-Fukuda, Yutaka Kondo, Hiroshi Sekiguchi, Ichiro Kukita

The predictive validity for mortality of driving pressure and mechanical power of ventilation
David van Meenen (Leiden, Netherlands), Ary Serpa Neto, Frederique Paulus, Coen Merkies, Laura Schouten, Lieuwe Bos, Janneke Horn, Nicole Juffermans, Olaf Cremer, Tom Van Der Poll, Marcus Schultz

Ventilation management in Asian middle-income countries
Luigi Pisani (Amsterdam, Netherlands), Ary Serpa Neto, Arjen Dondorp, Marcus J. Schultz

Patient ventilator asynchrony as a predictor of weaning failure in mechanically ventilated COPD patients.
Marwa Abdulnoeiz (Assuit, Egypt), Maha Elkhol, Samiaa Sadek, Reham Elmorshedy

Variation in ventilation management and outcome in ICU patients without ARDS - an IPD metaanalysis of 4 worldwide observational studies
Anna Geke Algera (Amsterdam, Netherlands), Luigi Pisani, Frederique Paulus, Ary Serpa Neto, Marcus Schultz

Discussion

Studio Madrid Session 272 09:30 - 10:30
State of the art session: Paediatric respiratory diseases
Aims: To describe current information about four important paediatric respiratory areas and to highlight future changes in diagnosis and management.
This session will be part of the second study of the PhD funded by ERS. More information can be found here
Disease(s): Airway diseases, Paediatric respiratory diseases, Sleep and breathing disorders
Tag(s): Clinical
Target audience: Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist
Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Ernst Eber (Graz, Austria)

09:30 Introduction

09:35 Congenital malformations
Petr Pohunek (Prah, Czech Republic)

09:45 Bronchiolitis obliterans
Geoffrey Kurland (Pittsburgh, PA, United States of America)

09:55 Assessing and improving the lung function growth trajectory in infants and children
Peter D. Sly (Brisbane (QLD), Australia)

10:05 Sleep disordered breathing and non invasive ventilation
Daniel Trachsel (Basel, Switzerland)

10:15 Discussion and Q&A

Studio Milan Session 273 09:30 - 10:30
Joint session: Frontiers of lung cancer screening
A joint ERS/Industry session
Aims: Please note that this session is not CME accredited.
Chairs: Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

09:30 Introduction
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

09:35 Cost-effectiveness of lung cancer screening with CT-scan
Harry De Koning (Rotterdam, Netherlands)

09:45 The role of artificial intelligence in lung cancer screening
Colin Jacobs (Nijmegen, Netherlands)

09:55 Radiation injury and second primary cancer: risk or asset?
Caro Franck (Edegem, Belgium)

10:05 Discussion and Q&A
**Studio Paris**  
**Session 274**  
**09:30 - 10:30**

**Symposium: New developments in pandemic medicine**

*An update from the PREPARE EU research project*

**Aims:** To describe the latest developments in antiviral therapy for influenza and the growing clinical problem of arbovirus infection in Europe; to evaluate the rationale for adaptive trials investigating critical care interventions in a pandemic; and to describe a collaborative strategy for increasing clinical and research capacity in Europe for pandemic care.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Pathologist, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational)

**Chairs:** Tobias Welte (Hannover, Germany), Elisabeth H.D. Bel (Amsterdam, Netherlands)

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<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Antiviral therapy for influenza: latest trial results</td>
<td>Christopher Butler (Oxford (Oxfordshire), United Kingdom)</td>
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<td>09:45</td>
<td>New approaches to designing trials for pandemics: setting up an adaptive trial for management strategies in community acquired pneumonia</td>
<td>Lennie P. G. Derde (Utrecht, Netherlands)</td>
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<td>ISARIC Covid-19 pandemic research response, tools and outcomes from clinical characterisation studies</td>
<td>Louise Sigfrid (Brighton (East Sussex), United Kingdom)</td>
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<td>10:05</td>
<td>What’s next - preparing for the ongoing COVID response and future pandemics</td>
<td>Gail Carson (Oxford (Oxfordshire), United Kingdom)</td>
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**Studio Vienna**  
**Session 275**  
**09:30 - 11:40**

**Grand round: Imaging grand round**

*Emerging imaging technologies and innovative study fields in respiratory diseases*

**Aims:** To describe the latest advances in imaging technology with a focus on diagnosis of early disease and prevention; to evaluate the role of artificial intelligence in imaging and the integration of artificial intelligence with emerging imaging techniques, such as magnetic resonance imaging (MRI) and quantitative computed tomography (CT), as well as deep learning; to evaluate the use of radiogenomics in classifying patients who will benefit from cancer treatment and predict outcomes using texture analysis; and to describe the results of imaging twin studies in estimating the role of genetic, epigenetic and environmental effects on respiratory diseases.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist

**Chairs:** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

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<td>Introduction</td>
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<td>09:35</td>
<td>Deep learning and its applications to lung imaging</td>
<td>Maria Vakalopoulou (Saint-Aubin, France)</td>
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<td>09:55</td>
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<td>10:05</td>
<td>Artificial intelligence in lung cancer: where are we now?</td>
<td>Fergus Gleeson (Oxford (Oxfordshire), United Kingdom)</td>
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<td>10:35</td>
<td>The future is here in thoracic oncologic imaging: role of radiogenomics</td>
<td>Zuhir Bodalal Elkarghali (, Netherlands)</td>
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<td>10:55</td>
<td>Discussion and Q&amp;A</td>
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<td>11:05</td>
<td>Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases: Part I</td>
<td>Ádám Domonkos Tárnoki (Budapest, Hungary)</td>
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Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases: Part II
David Laszlo Tarnoki (Budapest, Hungary)

Discussion and Q&A

Channel 2 Session 276 10:40 - 11:40

Oral presentation: New tools for risk stratification of obstructive diseases
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases  Respiratory critical care
Method(s): Pulmonary function testing  Epidemiology  General respiratory patient care  Physiology  Public health
Chairs: Stylianos Loukides (Athens, Greece), Fabio L. M. Ricciardolo (Orbassano (TO), Italy)

3756 Introduction

Collating data from major European population studies - The CADSET (Chronic airway disease early stratification) clinical research collaboration

Measurement of peripheral airspaces by nanoparticles in a group of 618 subjects
Jakob Löndahl (Lund, Sweden), Madeleine Petersson Sjögren, Laura Aaltonen, Jonas Jakobsson, Hanna Nicklasson, Jenny Rissler, Per Wollmer

Comparison of spirometric markers of severity and reversibility in patients with asthma and/or COPD in NOVELTY
Rod Hughes (Sheffield (South Yorkshire), United Kingdom), Ricardo Del Olmo, Barry Make, David Price, Alvar Agusti, Eleni Rapsomaniki, Hana Müllerová, Jørgen Vestbo

Risk Score for Subclinical COPD: The NHLBI Pooled Cohorts Study
Surya Blatt (Birmingham, United States of America), Pallavi Balte, Joseph Schwartz, Patricia Cassano, Paulo Chaves, David Couper, David Jacobs, Elina Jerschow, Ravi Kalhan, Robert Kaplan, Donald Lloyd-Jones, Anne Newman, George O'Connor, Jason Sanders, Benjamin Smith, Jason Umans, Wendy White, Sachin Yende, Elizabeth Oelsner

Validation of the codex index in patients with COPD enrolled in randomized clinical trials: A post-hoc analysis of the trilogy, trinity and tribute studies.
Pere Almagro (Terrassa, Spain), Paola Vaghi, Silva Tommasini, Diego González-Segura, Eva Topole, George Georges

Phenotypes, treatable traits, GOLD groups and grades - how they predict mortality risk in COPD patients? (data from the Czech Multicenter Research Database of COPD)
Kristian Brat (Brno, Czech Republic), Vladimir Koblizek, Michal Svoboda, Marek Plutinsky, Jaromir Zatloukal, Eva Volakova, Barbora Novotna, Patrice Popelkova, Tomas Dvorak, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vanik, Lucie Heribanova

Discussion

Channel 3 Session 277 10:40 - 11:40

Oral presentation: Respiratory diseases, hypoxia and cardiovascular function
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases  Sleep and breathing disorders  Respiratory critical care
Method(s): Pulmonary function testing  Imaging  Epidemiology  Physiology  Pulmonary rehabilitation  General respiratory patient care  Respiratory intensive care
Chairs: Samuel Vergès (Grenoble, France), Zafeiris Louvaris (Leuven, Belgium)

3764 Introduction

Late Breaking Abstract - The affinity of haemoglobin for oxygen is not altered in the course of Covid-19
Thomas Gille (Bobigny, France), Sesé Lucile, Eric Aubourg, Emmanuelle E. Fabre, Florence Cymbalista, Caroline Ratnam, Dominique Valeyre, Hilario Nunes, Jean-Paul Richalet, Carole Planès

ECHOCARDIOGRAPHIC PREDICTORS OF STRESS INDUCED RIGHT VENTRICULAR DIASTOLIC DYSFUNCTION IN NON-SEVERE CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva
Autonomic dysfunction, cardio-pulmonary parameters and masked heart failure in non-severe chronic obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheynia Cherneva

Assessing cardiocirculatory compensation capacity in COPD: impact of disease severity.
Ruddy Richard (Clermont-Ferrand, France), Aurélien Mulliez, Ludivine Boudieu, Julianne Touron, Frédéric Costes, Tanja Taiavassalo, Jean Bourbeau, Wan Tan, Dennis Jensen, Helene Perrault

Effect of oral sildenafil on physiological and sensory response to exercise in patients with mild-to-moderate COPD
Nathalia Mendes (Porto Alegre, Brazil), Ricardo Gass, Franciele Plachi, Talmir Ribeiro Nolasco, Paulo T Muller, Marli M Knorst, Jose Alberto Neder, Danilo C Berton

Electrocardiographic changes and cardiac ischemia in lowlanders with COPD travelling to 3100m
Arcangelo Friedrich Carta (Zürich, Switzerland), Michael Furian, Mona Lichtblau, Konstantinos Bitsos, Simon Raphael Schneider, Maamed Mademilov, Ulan Sheraliev, Nuriddin H. Marazhapov, Talant Sooronbaev, Konrad Ernst Bloch, Silvia Ulrich

Physiological phenotypes of COPD: the role of resting lung volumes
J. Alberto Neder (Kingston (ON), Canada), Danilo C. Berton, Mathieu Marillier, Anne-Catherine Bernard, Denis E. O'Donnell

Obstructive sleep apnea is associated with the presence of coronary collaterals in patients with acute myocardial infarction
Verena Summerer (Wenzenbach, Germany), Stefan Stadler, Henrik Fox, Andrea Hetzenecker, Olaf Oldenburg, Okka Hamer, Florian Zeman, Leonhard Bruch, Mirko Seidel, Stefan Buchner, Michael Arzt

Targeted lung denervation in patients with moderate to severe COPD: AIRFLOW-2 crossover patient outcomes.

Pre-treatment lung function decline stabilizes up to 3 year after targeted lung denervation in COPD
Jorine E. Hartman (Groningen, Netherlands), Sonja W.S. Augustijn, Karin Klooster, Nick H.T. Ten Hacken, Dirk-Jan Slebos

Impact of endoscopic valve therapy on hypercapnia in patients with chronic hypercapnic failure based on a severe lung emphysema
Matthias Rötting (Rodenbach, Germany), Markus Polke, Katharina Kriegsmann, Nilab Sarmand, Ralf Eberhardt, Felix Herth, Daniela Gompelmann

Endoscopic lung volume reduction with endobronchial valves in very low DLCO patients
Pavlina Lenga (Berlin, Germany), Christian Grah, Christoph Ruwee-Glösenkamp, Jens-Carsten Rückert, Joachim Pfannschmidt, Stephan Eggeling, Sylke Kurz, Gunda Loleschber, Bernd Schmidt, Paul Schneider, Andreas Gebhardt, Birgit Becke, Ralf-Harto Hübner

Value of Transbronchial Lung Cryobiopsy in Patients Susicious of Peripheral Lung Cancer
Felix J.F. Herth (Heidelberg, Germany), J Sun, Max Mayer, Jonas Herth, Ralf Eberhardt, Konstantinna Jkontogianni, Lonny Yarmus

Clinical management implications of histologic information provided by lung biopsy in the multidisciplinary evaluation of interstitial lung diseases.
Sara Tomassetti (Florence, Italy), Mauro Pavone, Claudia Ravaglia, Athol Wells, Carlo Vancheri, Elisabetta Rosi, Alberto Cavazza, Thomas Colby, Giulio Rossi, Jay Ryu, Silvia Puglisi, Antonella Arcadu, Alessandra Dubini, Sara Piciucchi, Federico Lavorini, Venerino Poletti

A randomised trial of transbronchial mediastinal cryobiopsy for the diagnosis of mediastinal disease
Ye Fan (, China), Felix J.F. Herth, Zan-Sheng Huang, Jie-Ru Guo, Jing Zhang, Wan-Lei Fu
**Channel 5  Session 279  10:40 - 11:40**

**Oral presentation: Quality improvements in lung function and sleep diagnostics**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** Pulmonary function testing, Physiology, Pulmonary rehabilitation, Epidemiology, Public health, General respiratory patient care

**Chairs:** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Rachel Ong-Salvador (Amsterdam, Netherlands)

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### 3783  Introduction

**Quality Improvement in a Sleep Clinic: To increase the capacity and reduce the time to treatment for patients with Obstructive Sleep Apnoea**

Peter Coss (Dublin 8, Ireland), Alanna Martin, Orla Gavin, Rebecca Mc Loughlin, Tracey Matthews, Anne Marie Mc Laughlin

**Early effect of Continuous Positive Airway Pressure therapy on Right Ventricular Function in patients with newly diagnosed Obstructive Sleep Apnoea**

Peter Coss (Dublin 8, Ireland), Gerard King, Ross Murphy, Ann Marie Mc Laughlin

**Quality control of cardiopulmonary exercise equipment**

Tjeu Souren (Utrecht, Netherlands), Erwin De Bliek, Johan Roeykens, Kevin De Soomer, Ellie Oostveen

**An RER of 1.05 should not be used to determine maximal effort during CPET**

Max Thomas (Birmingham, United Kingdom), Karl Sylvester

**A comparison of 3 sets of paediatric reference values for Cardio-Pulmonary Exercise Testing using cycle ergometry.**

Paul Burns (Glasgow (Glasgow), United Kingdom), James Y Paton

**Deep learning automates complete quality control of spirometric manoeuvre**

Nilakash Das (Leuven, Belgium), Kenneth Verstraete, Marko Topalovic, Jean-Marie Aerts, Wim Janssens

**Differences between % predicted and z-score. The impact on severity classification in spirometry.**

Ana Silva (Queluz, Portugal), Andreia Descalço, Ângela Martins, Carolina Constant, Teresa Bandeira

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**3791  Discussion**

**Studio Madrid  Session 280  10:40 - 11:40**

**Symposium: Respiratory diseases in children and adults**

**Aims:** To describe pre- and postnatal early life origins of airway diseases in children and adults; to describe risk factors for the progression of lung disease in patients with cystic fibrosis; and to describe the challenges of lower respiratory tract infections in children and adults.

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Ernst Eber (Graz, Austria)

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### 3792  Introduction

**The early life origins of asthma**

Sejal Saglani (London, United Kingdom)

**The early life origins of chronic obstructive pulmonary disease**

Alvar Agusti García-Navarro (Barcelona, Spain)

**Risk factors for progression of cystic fibrosis lung disease from childhood to adulthood**

Stephen M. Stick (Perth (WA), Australia)

**Lower respiratory tract infections: challenges in children and adults**

Jessica Rademacher (Hannover, Germany)

### 3792  Discussion and Q & A
Studio Milan  
Session 281  
10:40 - 11:40

Clinical trials session: ALERT: Pneumothorax, cough, PAH, alveolar proteinosis

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

**Discussants:** Daiana Stolz (Basel, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France)

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| 3799 | Late Breaking Abstract - Randomised trial of ambulatory management of primary spontaneous pneumothorax  
Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Rob Hallifax, Edward McKeown, Parthipan Sivakumar, Ian Fairburn, Christy Peter, Andrew Leitch, Matthew Knight, Andrew Stanton, Azim Ijaz, Stefan Marciniak, James Cameron, Amrithraj Bhatta, Kevin Blyth, Raja Reddy, Marie-Clare Harris, Nadeem Maddekar, Steven Walker, Alex West, Magda Laskawicz-Szkontar, John Corcoran, Stephen Gerry, Corran Roberts, John Harvey, Nick Maskell, Robert Miller, Najib Rahman |
| 3800 | Late Breaking Abstract - Two Phase 3 Randomized Clinical Trials of Gefapixant, a P2X3 Receptor Antagonist, in Refractory or Unexplained Chronic Cough (COUGH-1 and COUGH-2)  
Lorcan McGarvey (Belfast, United Kingdom), Lorcan McGarvey, Surinder Birring, Alyn Morice, Peter Dicpinigaitis, Ian Pavord, Jonathan Schellhout, Allison Martin Nguyen, Qing Li, Anjela Tzontcheva, Beata Iskold, Stuart Green, Carmen La Rosa, David Muccino, Jaclyn Smith |
| 3801 | Wrap-up by discussant and discussion  
Daiana Stolz (Basel, Switzerland) |
| 3802 | Late Breaking Abstract - Switching from PDE5i to riociguat in patients with PAH: The REPLACE study  
| 3803 | Inhaled Molgramostim Therapy in Autoimmune Pulmonary Alveolar Proteinosis (APAP)  
Bruce Trapnell (Cincinnati, United States of America), B Trapnell, Y Inoue, F Bonella, C Morgan, S Jouneau, E Bendstrup, I Campo, S A Papiris, E Yamaguchi, E Cetinkaya, M Iklovich, M Kramer, M Veltkamp, M Kreuter, T Baba, C Ganslandt, I Tarnow, G Waterer, T Jouhikainen |
| 3804 | Wrap-up by discussant and discussion  
Marc Humbert (Le Kremlin-Bicêtre, France) |

Studio Paris  
Session 282  
10:40 - 11:40

Symposium: Antibiotic resistance: the way forward

A joint ERS/ESCMID symposium

**Aims:** To describe factors associated with antibiotic resistance and the use of innate immunity to improve antibiotic effectiveness: to determine the optimal dose of antibiotics to eliminate infections and prevent the development and resistance; and to describe methods of eliminating biofilms.

**Disease(s):** Respiratory infections

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Physician in Pulmonary Training

**Chairs:** Tobias Welte (Hannover, Germany), Elisabeth H.D. Bel (Amsterdam, Netherlands)

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| 3806 | Patient perspective: video  
Barbara Crossley (Buxton, United Kingdom) |
| 3807 | Antibiotics kill some but not all pathogens: persistent populations and how they arise  
Speaker to be confirmed |
| 3808 | Better diagnostics for targeted antibiotic therapy  
Herman Goossens (Edegem (Antwerp), Belgium) |
| 3809 | Improving the innate immune response in respiratory infections: the use of repurposed drugs  
Victor Nizet (La Jolla, United States of America) |
| 3810 | Biofilms and how to combat them: examples from cystic fibrosis  
Thomas Bjarnsholt (Copenhagen, Denmark) |
**Session 283**

**11:50 - 12:50**

**Respiratory medicine meets other disciplines: Breathing disorders and cardiovascular diseases**

A joint ESC/ERS session

**Aims:** To describe the need for intense collaboration among pneumologists, cardiologists and intensive care specialists for the proper care of patients with pulmonary hypertension.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), Stephan Rosenkranz (Köln, Germany)

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**11:50**

**Introduction**

Laurent Savale (Le Kremlin-Bicêtre, France)

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**11:55**

**Keeping the kidney and heart in balance: management of end-stage right heart failure**

Laurent Savale (Le Kremlin-Bicêtre, France)

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**12:05**

**Interventional treatment of pulmonary hypertension: where are we now?**

Nazzareno Galiè (Bologna (BO), Italy)

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**12:15**

**Journeys to high altitude: risks and recommendations for travellers with/without pre-existing cardiopulmonary conditions**

Konrad E. Bloch (Zurich, Switzerland)

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**12:25**

**ERS statement on chronic thromboembolic pulmonary hypertension**

Marion Delcroix (Leuven, Belgium)

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**12:35**

**Discussion and Q & A**

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**Session 284**

**11:50 - 12:50**

**Oral presentation: New and integrated tools for respiratory diagnosis and care**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** General respiratory patient care  Public health  Respiratory intensive care  Physiology  Palliative care

**Chairs:** Nicoletta R. Morelli (Den Haag, Netherlands), Laura Fregonese (London, United Kingdom)

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**3818**

**Introduction**

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**3819**

**A new statistical diagnostic tool for respiratory diseases**

Martin Wiegand (Cambridge, United Kingdom), Saralees Nadarajah, Jaclyn Smith, Kimberley Holt, Kevin Mcguinness

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**3820**

**Effectiveness of a breathlessness service for patients suffering from breathlessness in advanced disease: pragmatic fast-track randomized controlled trial**

Claudia Bausewein (München, Germany), Michaela Schunk, Lien Le, Zulfiya Syunyaeva, Birgit Haberland, Susanne Tänzler, Ulrich Mansmann, Bertold Nastassja, Larissa Schwarzkopf, Hildegard Seidl, Streitwieser Streitwieser, Miriam Hofmann, Thomas Müller, Tobias Weiß, Philipp Morawietz, Eva Annette Rehfues, Rudolf Maria Huber, Ursula Berger

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**3821**

**Efficiency of a home follow-up program after a COPD exacerbation as a way to reduce hospital readmissions**

Laura Nuñez Garcia (Madrid, Spain), Maria De Los Angeles Zambrano Chacón, Carlos Lopez Chang, Laura De La Dueña Muñoz, Marwan Mohamed Choukri, Itziar Fernández Ormaechea, Diana Sánchez Mellado, Felipe Villar Alvarez

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**3822**

**Healthcare utilization and cost associated with chronic cough in the United Kingdom: a retrospective observational study**


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**3823**

**How do differences in the definition of good quality care affect classification of hospital performance?**

Alexander Adamson (London, United Kingdom), Sophie Robinson, C Mike Roberts, Jennifer K Quint, James Calvert

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**3824**

**Lean methodology implemented in pneumology hospitalized patients (Neumolean)**

Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Núñez García, Diana Sánchez Mellado, Itziar Fernández Ormaechea, Rebeca Armenta Fernández, Teresa Gómez Del Pulgar Murcia, Sandra Pelciano Vizuete, Felipe Villar Alvarez

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Channel 3  
Session 285  
11:50 - 12:50

Oral presentation: Novel methods, diagnostics and biomarkers of chronic lung diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases, Sleep and breathing disorders, Thoracic oncology, Respiratory critical care

Method(s) : Cell and molecular biology, Physiology, Respiratory intensive care

Chairs : Aurelie Fabre (Dublin 4, Ireland), Arnaud Maillieux (Paris, France)

3826  
Introduction

3827  
Differential mast cell activation by transcriptomic signature analysis in the U-BIOPRED severe asthma cohort

Angelica TIOTIU (Nancy, France), Yusef Badi, Nazanin Zounemat Kermani, Phillip Hansbro, Craig Wheelock, Sven-Erik Dahlen, Yi-Ke Guo, Peter Sterk, Ratko Djukanovic, Ian Adcock, Fan Kian Chung

3828  
Alteration of Plasma Exosome Content in Acute Respiratory Distress Syndrome: a miRNA signature associated to lung fibrosing process.

Gilles Parzibut (Liege, Belgium), Julien Guiot, Benoît Misset, Michel Malaise, Renaud Louis, Edouard Louis, Monique Henket, Catherine Moermans, Sebastien Njock

3829  
Profiling of airway epithelial proteome reveals sex differences in early stage COPD linked to xenobiotic metabolism and ER stress

Åsa Wheelock (Stockholm, Sweden), Tina Heyder, Mingxing Yang, Maxie Kohler, Heta Merikallio, Helena Forsslund, Chuan-Xing Li, Reza Karimi, Johan Grunewald, C. Magnus Skold

3830  
Impact of histaminergic H3 receptor antagonist on hypoglossal nucleus in chronic intermittent hypoxia conditions

Liang Xie (Shanghai, China), Shangqun Li

3831  
Differentiation of NSCLC patients and healthy controls by a urinary microRNA panel

Aniek J.M. Wilke - Raamsteboers (Enschede, Netherlands), C.G.M. Groothuis-Oudshoorn, A.G.J. De Moor, J.A.M. Van Der Palen, J. De Rootij, E. Citgez

3832  
LSC - 2020 - Transcriptome signatures of tobacco carcinogens hint the alteration of TAF6 as a specific feature in smokers lung cancer

Mario Pepe, Anne-Sophie Lamort, Georges Statopoulos

3833  
Discussion

Channel 4  
Session 286  
11:50 - 12:50

Challenging clinical cases: Interstitial lung diseases

Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s): Interstitial lung diseases

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Nurse, Radiologist

Chairs: Michael Kreuter (Heidelberg, Germany), Maria Molina Molina (Barcelona, Spain)

11:50  
Introduction

11:55  
A challenging complex complication in common variable immune deficiency

Sabine Zimmermann (Sydney (NSW), Australia)

12:01  
Discussion and Q & A

12:06  
Granulomatous lung disease in lymphoma patient after rituximab treatment

Piotr Janowiak (Gdańsk, Poland)

12:12  
Discussion and Q & A

12:17  
A crazy conundrum

Nazia Imambaccus (London, United Kingdom)

12:23  
Discussion and Q & A
A rare cause of recurrent pneumothorax
João Oliveira Pereira (Coimbra, Portugal)

Discussion and Q & A

Pleural effusion in Niemann Pick Disease - associated Interstitial Lung Disease
Emma Boynton (Cambridge, United Kingdom)

Discussion and Q & A

The mediating role of lung function on air pollution-induced cardiopulmonary mortality
Andrea Dalecka (Ostrava, Czech Republic), Claudia Wigmann, Hicran Altug, Sara Kress, Vitězslav Jiřík, Joachim Heinrich, Michael Abramson, Tamara Schikowski

Foetal exposure to heavy metals and risk of asthma and allergic diseases in early childhood: a population-based birth-cohort study
Isabella Annesi Maesano (Paris, France), Giancarlo Pesce, Nour Baiz, Guy Huel

Change in body mass index and expiratory flow in World Trade Center workers
Rafael E. de la Hoz (New York, United States of America), Amaal Alruwaily, Akshay Sood, Xiaoyu Liu, John Doucette, Yunho Jeon, Juan Celedón

Exposure-response relationships for platinum salt sensitization in platinum refinery workers: a 17-year retrospective study
Lidwien A.M. Smit (Utrecht, Netherlands), José Jacobs, Lützen Portengen, Juliette Da Silva, Dick Heederik, Frits Van Rooy, Remko Houba

Occupational exposure and new onset asthma in the Telemark study: a five-year follow up.
Nikola Zivadinovic (Skien, Norway), Geir Klepaker, Martin Veel Svendsen, Toren Kjell, Paul Henneberger, Johny Kongerud, Anne Kristin Möller Fell

IPF risk: two's company, three's a crowd? Asbestos exposure, cigarette smoke, and MUC5B promoter polymorphism rs35705950. Findings from the idiopathic pulmonary fibrosis job exposures study (IPFJES).
Carl Reynolds (London, United Kingdom), Vyshnavi Thanaraaj, Rupa Sisodia, Chris Barber, Paul Cullinan

Using digital and social media to highlight the risks of occupational exposures as a cause of lung diseases
David Fishwick (Sheffield (South Yorkshire), United Kingdom), Emma Thompson, Dick Heederik, Martie Van Tongeren, Sara De Matteis, Saskia Weldam, Jade Sumner, Dan Smyth, Ewelina Szymytko, Paul Blanc, Pippa Powell

Introduction
Low dose inhaled corticosteroids (ICS) and short-acting beta-agonists (SABA) or long-acting beta-agonists (LABA) need in children and adolescents with asthma steps 1 and 2: what is the evidence?
Louise Fleming (London, United Kingdom)

Asthma treatment in step 3: the cases for adding LABA or doubling ICS
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom)

Comorbidities in asthma: the role of obesity in children with asthma
Erick Forno (Pittsburgh, United States of America)

From guidelines to personalized treatment of children with asthma
James Y. Paton (Glasgow (Glasgow), United Kingdom)

Discussion and Q & A

Symposium: Lung cancer screening: are we back to the individualised decision-making process? Ground glass opacities, subsolid and part-solid nodules: have we returned to individualised decisions about and management of pulmonary nodules?

Aims: To describe the morphology of suspicious nodules and the clinical factors associated with lung cancer risk; and to evaluate the latest guidelines on a multidisciplinary approach to early lung cancer diagnosis and treatment.

Disease(s): Thoracic oncology

Method(s): Endoscopy and interventional pulmonology  Imaging  Surgery

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Medical Student, Pathologist, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs: Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

The new perspectives in chest imaging: back to the future?
Hans-Ulrich Kauczor (Heidelberg, Germany)

The influence of nodule evaluation on management recommendations
Georgia Hardavella (Athens, Greece)

Sublobar resections vs lobectomy for early stage lung cancer: where do we stand?
René Horsleben Petersen (Copenhagen, Denmark)

The role of robotic surgical management in early stage lung cancer
Gulia Veronesi (Milan, Italy)

Discussion and Q & A

Journal session: The European Respiratory Journal editor's view: our best papers of last year

Aims: To present the best papers published in 2019–2020 in the European Respiratory Journal (ERJ) in the fields of paediatric pulmonology, pulmonary infections, thoracic oncology and airways diseases; and to provide experts' opinions about the importance of these articles.

Disease(s): Airway diseases  Paediatric respiratory diseases  Respiratory infections

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Thoracic oncologist

Chairs: Elisabeth H.D. Bel (Amsterdam, Netherlands), Tobias Welte (Hannover, Germany)

The best papers in the ERJ: infectious diseases in the respiratory system
Grant Waterer (Perth (WA), Australia)

The best papers in the ERJ: paediatric pulmonary diseases
Claudia E. Kuehni (Bern, Switzerland)
Lungs on fire: Airway diseases?

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

**Disease(s):** Airway diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Paediatrician, Nurse, Radiologist, Respiratory critical care physician, Respiratory physiotherapist

**Chairs:** Daiana Stolz (Basel, Switzerland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

**Discussants:** Dave Singh (Manchester, United Kingdom)

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<td>Lennart H. Conemans (Netherlands)</td>
<td>Discussion and Q&amp;A</td>
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<td>Case 2</td>
<td>Anna Trojnar (Poland)</td>
<td>Discussion and Q&amp;A</td>
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<td>Case 3</td>
<td>Abdul Majeed Arshad (India)</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>Case 4</td>
<td>Yuri De Deus Montalverne Parente (Brazil)</td>
<td>Discussion and Q&amp;A</td>
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**11:50 Introduction**

**11:52 Presentation of cases by the session facilitator**

Dave Singh (Manchester, United Kingdom)
**Channel 1**

**Session 302** 14:30 - 15:30

**Joint session: Updates in cystic fibrosis**

**Aims**: To give an update about scientific and clinical development in different aspects of cystic fibrosis (CF) over the last 12 months; to present the major updates in treatment of cystic fibrosis patients to non-CF specialists.

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

**Chairs**: Stefano Aliberti (Milano (MI), Italy), Susan Madge (London, United Kingdom)

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<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Update on management of lung infection in cystic fibrosis</td>
<td>Patrick Flume (Charleston, United States of America)</td>
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<tr>
<td>14:45</td>
<td>Update on pancreatic and liver disease in cystic fibrosis</td>
<td>Philippe Sogni (Paris, France)</td>
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<tr>
<td>14:55</td>
<td>Living with cystic fibrosis: challenges in treatment adherence and social emotional well-being</td>
<td>Mandy Bryon (London, United Kingdom)</td>
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<tr>
<td>15:05</td>
<td>Update on new treatments for cystic fibrosis</td>
<td>Damian Downey (Belfast, Ireland)</td>
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<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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**Channel 2**

**Session 303** 14:30 - 15:30

**Oral presentation: Biological aspects of lung cancer**

**Abstracts presented in this session are also available as E-posters from 24 August 2020**

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

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

**Chairs**: Jacques Cadranel (Paris Cedex 20, France), Ilona Tietzova (Praha, Czech Republic)

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<td>3937</td>
<td>Late Breaking Abstract - Induction of the transcriptional repressor B lymphocytes-induced maturation protein-1 (Blimp-1) in lung cancer</td>
<td>Susetta Finotto (Erlangen, Germany), Laura Neurath, Denis Trufa, Carol Geppert, Ralf Rieker, Horia Sirbu</td>
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<tr>
<td>3938</td>
<td>Late Breaking Abstract - Transient Receptor Potential Vanilloid subtype 4 in patients with lung cancer</td>
<td>Ieva Bajoriuniene (Kaunas, Lithuania), Vytais Bajoriunas, Edgaras Stankevicius</td>
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**Late Breaking Abstract - Anaplastic Lymphoma Kinase inhibition as an effective treatment strategy against the enhanced lung carcinogenesis and cancer angiogenesis related to decreased PTPRZ1 expression**

Despoina Ntenekou (Patra, Greece), Pinelopi Kastanu, Maria Hatziapostolou, Christos Polytarchou, Antonia Marazioti, Sophia Nikou, Gonzalo Herradon, Eleni Papadaki, Georgios Stathopoulos, Constantinos M. Mikelis, Evangelia Papadimitriou

**LSG - 2020 - Comprehensive characterization of the immune landscape within different molecular subtypes of small cell lung cancer (SCLC)**

Angel Núñez Buiza (Madrid, Spain)

**Prediction of long-term effect of anti-angiogenic therapy in lung cancer patients by monitoring early changes in circulating-tumor DNA (ctDNA).**

Barbora Belsanova, Miloš Pešek, Benesova Lucie, Martin Svatůn, Renata Ptackova, Ondrej Fiala, Masrek Minarik

**Long-term prognosis of patients with cancer-related mutations in non-tumoral lung.**

Roberto Chalela (Barcelona, Spain), Karys Khilzi, Joaquin Gea, Albert Sanchez-Font, Lara Pijuan, Jose Gregorio Gonzalez-Garcia, Diana Badenes-Bonet, Beatriz Bellosillo, Victor Curull

**Interactions of lung cancer with adipose and muscle tissue in the development of cancer cachexia**

Armin Frille (Leipzig, Germany), Nicolas Linder, Johanna Pappisch, Teresa Kerkhoff, Jonas Meyer, Hartmut Kuhn, Claudia Hänel, Harald Busse, Karen Geya Steinhoff, Michael Rullmann, Thomas Ebert, Sebastian Krümer, Johannes Broschewitz, Osama Sabri, Swen Hesse, Hans-Jürgen Seyfarth, Hubert Wirtz

**Role of extracellular vesicles in chemotherapy-induced lung metastasis**

Nahal Mansouri (Boston, United States of America), Ioanna Keklikoglou, Sina Nassiri, Bruno Torchia, Alan Guichard, Michele De Palma

**Exosomes from Intermittent Hypoxia Treated Lung Adenocarcinoma Cell Line Up-regulate Programmed Death Ligand 1 Expression through HIF-1a Pathway in Macrophages**

yuanning liu (Guangzhou, China), Xinglin Gao, Minzhen Lu, Jianan Chen, Siqi Li

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**Channel 3  Session 304  14:30 - 15:30**

Oral presentation: Respiratory physiology and sleep: from neonates to adults

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** Pulmonary function testing  Epidemiology  Physiology  Cell and molecular biology  Public health

**Chairs:** Refika Hamutcu Ersu (Ottawa, Canada), Nicole Beydon (Paris, France)

**Lung function in extremely preterm born adults over three decades**

Tonje Bårdsen (Bergen, Norway), Merete Benestad, Ola Røksund, Hege Clemm, Ingvild Mikalsen, Knut Øymar, Thomas Halvorsen, Maria Vollseter

**Development of lung function in “healthy” preterm infants during the first six years of life.**

Laura Camats Marsol (SAN SEBASTIAN, Spain), Ines De Mir Mesa, Olaia Sardón Prado, Paula Corcuera Elosegui, Ignacio Iglesias Serrano, Sandra Rovira Amigó, Javier Korta Murua, Antonio Moreno Galdó

**Impact of obstructive sleep apnea and obesity on endothelial dysfunction in children**

Emilie Myllemans (Berchem, Belgium), Sofie Jacobs, Eline Vermeiren, Kim Van Hoorenbbeek, Ann De Guchtenaere, Annelies Van Eyck, Stijn Verhulst

**Fluctuation analysis of FEV1 in healthy children and adolescents: the effect of age**

Sotirios Fouzas (Patras, Greece), Eirini Sofia Frima, Ilias Theodorakopoulous, Dimos Gidaris, Nikolaos Karantaglis, Grigorios Chatziparasides, Panagiotis Plitas, Ioannis Giannakopoulos, Michael Anthracopoulos, Urs Frey

**Does the mode of delivery influence respiratory outcomes in the first year of life?**

Yasmin Salem Mahmoud (Bern, Switzerland), Marc-Alexander Oestreicht, Philipp Latzin, Kathryn Ramsey, Sophie Yammine

**Volumetric capnography: a promising lung function test in cystic fibrosis?**

Anne-Christianne Kentgens (Bern, Switzerland), Olga Lagiou, Bettina Sarah Fruhiger, Florian Wyler, Ilias Theodorakopoulous, Sophie Yammine, Sotirios Fouzas, Philipp Latzin
Challenging clinical cases: Respiratory infections

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Paediatrician, Thoracic surgeon, Nurse, Respiratory physiotherapist

**Chairs:** Eva Polverino (Barcelona, Spain), Gernot G.U. Rohde (Frankfurt am Main, Germany)

14:30 **Introduction**

14:35 **ARDS- an unusual complication of mumps**
Neeraj Sharma (Kolkata, India)

14:41 **Discussion and Q & A**

14:46 **An unexpected association**
Ana Catarina Gouveia Cardoso (Vila Nova de Famalicão, Portugal)

14:52 **Discussion and Q & A**

14:57 **Dyspnea and pulselessness: an unusual combo**
Umang Arora (New Delhi, India)

15:03 **Discussion and Q & A**

15:08 **A rare cause of bronchiectasis**
Claudio Tirelli (Vaiano Cremasco (CR), Italy)

15:14 **Discussion and Q & A**

15:19 **Successful management of a patient with triple infection (MDR-TB/HIV/HCV) using new WHO recommendations**
Aliaksandr Skrahin (Minsk, Belarus)

15:25 **Discussion and Q & A**

**Channel 5**

**Session 306** 14:30 - 15:30

Oral presentation: Updated assessment and treatment of pulmonary arterial hypertension

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** Epidemiology  General respiratory patient care  Physiology  Cell and molecular biology  Pulmonary rehabilitation  Imaging

**Chairs:** Marius M. Hoeper (Hannover, Germany), Sean Gaine (Dublin, Ireland)

14:30 **Introduction**

14:35 **Combination therapy with sotatercept analog RAP-011 is superior to sildenafil alone in severe experimental PAH and RAP-011 benefits persist after treatment cessation**
SACHINDRA JOSHI (Cambridge, United States of America), Jun Liu, R. Scott Pearsall, Patrick Andre, Gang Li, Raviindra Kumar

14:41 **Discussion and Q & A**

14:46 **Long-term outcomes with initial triple oral therapy in pulmonary arterial hypertension (PAH): Insights from TRITON**
Olivier Sitbon (Le Kremlin-Bicêtre, France), Nazzareno Galiè, Martin Doelberg, J Simon R Gibbs, Marius M Hoeper, Mylene Stefani, Stephen C Mathai, Vallerie McLaughlin, Loïc Perchenet, Gérald Simonneau, Kelly Chin

14:52 **Discussion and Q & A**

14:57 **Successful management of a patient with triple infection (MDR-TB/HIV/HCV) using new WHO recommendations**
Aliaksandr Skrahin (Minsk, Belarus)

15:03 **Discussion and Q & A**
Long-term outcomes in incident pulmonary arterial hypertension (PAH) patients initiated with triple combination therapy including parenteral prostacyclin (PGI2)

Athénaïs Boucly, Audrey Baron, Laurent Savale, Xavier Jaïs, François Picard, Vincent Cottin, Emmanuel Bergot, Claire Dauphin, Arnaud Boudin, Ari Chaouat, Pascal Roblot, Céline Chabanne, Grégoire Prévot, Laurent Bertoletti, David Montani, Gérard Simonneau, Marc Humbert, Olivier Sitbon

REPAIR: long-term effects of macitentan on the right ventricle (RV) in pulmonary arterial hypertension (PAH)


Standardised exercise training is feasible, safe and effective in pulmonary arterial and chronic thromboembolic pulmonary hypertension - results from a large European multicentre randomised controlled trial

Christina Eichstaedt, Ekkehard Grünig, Alison Mackenzie, Andrew Peacock, Nicola Benjamin, Robert Nechwatal, Silvia Ulrich, Stéphanie Saxer, Maurizio Bussotti, Marcella Sommaruga, Stefano Ghio, Lina Gumbiene, Egle Palevičiūtė, Elena Jurevičienė, Antonino Lucadamo, Anna A. Stanziola, Alberto M. Marra, Gabor Kovacs, Horst Olschewski, Juan-Albert Barberà, Isabel Blanco, Martijn A. Spruit, Frits M.E. Franssen, Anton von Noordegraaf, Abilio Reis, Mário Santos, Sofia Goncalves Viamonte, Helen Demeur, Marion Delcroix, Eduardo Bossone, Martin Johnson

EmPHasis-10 health-related quality of life score predicts outcomes in patients with idiopathic and connective tissue disease-associated pulmonary arterial hypertension: results from a UK multicentre study


In-depth risk stratification in pulmonary arterial hypertension

Athiththan Yogeswaran, Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall

Discussion
Aims: To describe how to use guidelines and recommendations in the management of screen-based and incidentally identified nodules and how to use revised guidelines to evaluate the results of high-resolution computed tomography (HRCT) in the diagnosis of idiopathic pulmonary fibrosis (IPF) and its place in the clinical work-up of patients with this disease; and to describe the use of appropriate imaging modalities in the staging of lung cancer and in the diagnosis of pulmonary embolism and pulmonary hypertension.

Disease(s): Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology

Method(s): General respiratory patient care, Imaging

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Respiratory therapist, Medical Student, Nurse, Paediatrician, Pathologist, Radiologist, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon

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

### Studio Paris Session 309 14:30 - 15:30

#### Symposium: Lung health and respiratory function at all ages

**Aims:** To describe methods of enhancing lung health and respiratory function at all ages, from neonates to the elderly; to describe new techniques for assessing respiratory function; and to evaluate respiratory physiology in the context of human airway anatomy and its use in assessing respiratory function and lung health in patients.

**Disease(s):** Airway diseases, Paediatric respiratory diseases, Respiratory critical care

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist

**Chairs:** Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

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<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Incidental or screen based findings of pulmonary nodules: what to do?</td>
<td>Adriana Dubbeldam (Nieuwrode, Belgium)</td>
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<tr>
<td>14:45</td>
<td>Revised diagnostic criteria for idiopathic pulmonary fibrosis</td>
<td>Athol Wells (London, United Kingdom)</td>
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<tr>
<td>14:55</td>
<td>Logical use of imaging modalities in lung cancer staging</td>
<td>Walter De Wever (Leuven, Belgium)</td>
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<tr>
<td>15:05</td>
<td>Image-based recommendations for the evaluation of pulmonary embolism and arterial hypertension: what? when? how?</td>
<td>Martine Remy-Jardin (Lille, France)</td>
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<td>15:15</td>
<td>Discussion and Q&amp;A</td>
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**Studio Vienna Session 310 15:30 - 16:30**

#### Lungs on fire: Interstitial lung diseases?

**Aims:** To describe methods of enhancing lung health and respiratory function at all ages, from neonates to the elderly; to describe new techniques for assessing respiratory function; and to evaluate respiratory physiology in the context of human airway anatomy and its use in assessing respiratory function and lung health in patients.

**Disease(s):** Airway diseases, Paediatric respiratory diseases, Respiratory critical care

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist

**Chairs:** Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

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<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>ERS statement: Global Lung Function Initiative (GLI): Deriving global multi-ethnic reference values for the measurement of lung volumes</td>
<td>Sanja Stanojevic (Halifax (NS), Canada)</td>
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<tr>
<td>14:45</td>
<td>The evolution of respiratory function testing in paediatric lung diseases</td>
<td>Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)</td>
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<td>14:55</td>
<td>Challenging spirometry with newer lung function tests in adults</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<tr>
<td>15:05</td>
<td>Applying new respiratory function technologies to the elderly and the potential of future lung regeneration</td>
<td>Andrea Aliverti (Milan, Italy)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q&amp;A</td>
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Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

Disease(s): Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases

Target audience: Adult pulmonologist/Clinician, Thoracic surgeon, Thoracic oncologist, General practitioner, Paediatrician, Nurse, Clinical researcher, Radiologist, Respiratory critical care physician

Chairs: Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

Discussants: Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

Case 1 - Author: Hebatallah Hany Assal (Egypt)

Case 2 - Author: Neel Thakkar (India)

Case 3 - Author: João Oliveira Pereira (Portugal)

Case 4 - Author: Oleh Yakovenko (Ukraine)

Discussion and Q&A

Channel 1

Session 311 15:40 - 16:40

Symposium: European Reference Network for rare lung diseases (ERN-LUNG): acting for improved cross-border management of rare diseases

Disease(s): Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Physician in Pulmonary Training, Journalist

Chairs: Marlies S. Wijsenbeek (Rotterdam, Netherlands), Vincent Cottin (Lyon, France)

15:40 Introduction

15:45 ERN-lung report from the network coordination team
Gerhard G.U. Rohde (Frankfurt am Main, Germany)

15:54 Phenotypic Spectrum in Primary Ciliary Dyskinesia
Heymut Omran (Münster, Germany)

16:03 Genomically-guided therapies: a new era for cystic fibrosis
Marcus Mall (Berlin, Germany)

16:12 Why should we care for the vessels in interstitial lung disease?
Horst Olschewski (Graz, Austria)

16:21 Immundefects, rare pulmonary infections and rare lung diseases
John R Hurst (London, United Kingdom)

16:30 Discussion and Q&A

Channel 2

Session 312 15:40 - 16:40

Oral presentation: Diagnosis and management of airways disease in primary care

Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Sleep and breathing disorders, Airway diseases
Method(s): General respiratory patient care, Epidemiology, Public health, Imaging, Physiology
Chairs: Janwillem W. H. Kocks (Groningen, Netherlands), Hanna Sandelowsky (Vendelso, Sweden)

4010 Introduction

4011 The association between lung function in adults and future burden of obstructive lung diseases in a long-term follow-up
Anders Lokke (Højbjerg, Denmark), Lene Maria Ørts, Bodil Hammer Bech, Torsten Lauritzen, Anders Helles Carlsen, Annelli Sandbak

4012 The majority of patients that suffer an asthma attack at the Emergency Room (ER) are mild asthmatics

4013 “I don’t think there’s a simple way of doing it:” the use of an electronic alert to identify excessive prescribing of short-acting beta2-agonists for people with asthma – a qualitative study with asthma experts and primary care staff
Shauna McKibben (London, United Kingdom), Andy Bush, Mike Thomas, Chris Griffiths

4014 Negotiating identity: impact on self-management practices in people with asthma and limited health literacy in Malaysia
Hani Salim (Selangor, Malaysia), Ingrid Young, Sazlina Shariff Ghazali, Ping Yein Lee, Hilary Pinnock

4015 The impact of different valved holding chambers (VHCs) on lung drug delivery: using functional respiratory imaging (FRI) and a single metered dose inhaler (MDI) type
Jason Suggett (London (ON), Canada), Vlad Kushnarev, Cedric Van Holsbeke, Stien Van Steen, Benjamin Mignot

4016 Comparison of first experience with different inhalers in COPD: a cross-over study
Hadeer S. Harb (Beni-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim

4017 Identification of important respiratory research themes relevant to primary care: qualitative analysis of round 1 of the 2020 International Primary Care Respiratory Group (IPCRG) Research Prioritisation Exercise

4018 Discussion

Channel 3 Session 313 15:40 - 16:40

Oral presentation: Hot topics in paediatric asthma
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases
Method(s): Pulmonary function testing, General respiratory patient care, Epidemiology
Chairs: Angela Zacharasiewicz (Wien, Austria), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

4019 Introduction

4020 Diagnosis of asthma in children: findings from the Swiss Paediatric Airway Cohort
Carmen de Jong (Bern, Switzerland), Eva S L Pedersen, Rebeca Mozun, Dominik Mueller-Suter, Anja Jochmann, Florian Singer, Carmen Casaulta, Nicolas Regamey, Alex Moeller, Cristina Ardura-Garcia, Claudia E Kuehni

4021 Longitudinal data-driven definition of clinical asthma phenotypes in the pediatric arm of the All Age Asthma Cohort (ALLIANCE) of the German Center for Lung Research (DZL)
Alexander Hose (München, Germany), Thomas Bahmer, Klaus Rabe, Erika Von Mutius, Gesine Hansen, Matthias Kopp, Markus Ege

4022 The role of eosinophils in pediatric and adult asthma
Jimmy Omomy (Neuherberg, Germany), Ruth Grychtol, Nicole Maison, Dominik Thiele, Adan Chari Jirma, Anna-Maria Dittrich, Thomas Bahmer, Klaus Rabe, Harald Renz, Gesine Hansen, Matthias Kopp, Bianca Schaub, Erika Von Mutius, Sabina Illi
### Channel 4  
#### Session 314  
**15:40 - 16:40**

**Challenging clinical cases: Respiratory critical care**

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, Clinical researcher, General practitioner, Paediatrician, Thoracic oncologist, Thoracic surgeon, Pathologist, Nurse, Radiologist

**Chairs:** Marieke L. Duiverman (Groningen, Netherlands), Enrico M. Clini (Modena (MO), Italy)

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<tr>
<td>15:40</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>15:45</td>
<td><strong>SLE with HLH - A double whammy</strong></td>
<td>Mohanakrishnan Jayamani (Chennai (Tn), India)</td>
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<td>15:51</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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<td>15:56</td>
<td><strong>Siphonage lung disease</strong></td>
<td>INAYAT ULLAH (peshawar, Pakistan)</td>
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<td>16:02</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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<td>16:07</td>
<td><strong>Acute Flaccid Paralysis and respiratory failure by Enterovirus D68 Infection-the beginning of Polio epidemic?</strong></td>
<td>Syeda Nafisa (Nottingham, United Kingdom)</td>
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<td>16:13</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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<td>16:18</td>
<td><strong>Cerebral air embolism complicating transbronchial lung biopsy</strong></td>
<td>Vladimir Herout (Brno 34, Czech Republic)</td>
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<td>16:24</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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<tr>
<td>16:29</td>
<td><strong>Respiratory insights into Stiff Person Syndrome (SPS): clinical, electromyographic and therapeutic implications</strong></td>
<td>Margherita Algeri (Milano, Italy)</td>
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<td>16:35</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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### Channel 5  
#### Session 315  
**15:40 - 16:40**

**Oral presentation: Right ventricular function and pulmonary hypertension**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** Luke Howard (London, United Kingdom), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

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<tr>
<td>15:40</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>15:48</td>
<td><strong>Late Breaking Abstract - Thromboembolic complications in COVID-19 patients admitted to two large East London hospitals</strong></td>
<td>Stuart Innes (Romford, United Kingdom), Erik Skyllberg, Helen Fielden, Ateeb Khan, Daryl Cheng, Rizwan Kaiser, Adam Ainley</td>
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<td>15:51</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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<td>Session 316</td>
<td>15:40 - 16:40</td>
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<td><strong>State of the art session: Sleep and breathing disorders</strong>&lt;br&gt;From screening to optimal management</td>
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<td><strong>Aims</strong>: An overview on sleep disordered breathing research over the last 30 years, with attention to new topics and future developments in the field.</td>
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<td><strong>Disease(s)</strong>: Respiratory critical care, Sleep and breathing disorders</td>
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<td><strong>Tag(s)</strong>: Clinical</td>
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<td><strong>Target audience</strong>: Adult pulmonologist/clinician, Clinical researcher, Nurse, Respiratory critical care physician, Physiologist, Respiratory physiotherapist, Respiratory therapist</td>
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<td><strong>Chairs</strong>: Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)</td>
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**Monday, 07 September, 2020**

### 15:40 - 16:00

**Introduction**

*Michael Seckeler (Tucson, United States of America), Rebecca Vanderpool, Scott E. Klewer, Franz P. Rischard*

### 15:45 - 16:00

**The Sadoul Lecture: Obstructive sleep apnea - past, present, and future**

*Maria Bonsignore (Palermo, Italy)*

### 15:54 - 16:00

**Screening for sleep disordered breathing: in whom and how**

*Sophia E. Schiza (Heraklion, Greece)*

### 16:03 - 16:12

**Personalized treatment in sleep disordered breathing**

*Winfried J. Randerath (Solingen, Germany)*

### 16:12 - 16:21

**Sleep disordered breathing, CVD and Continuous Positive Airway Pressure**

*Patrick Lévy (Grenoble, France)*
### Studio Milan  Session 317  15:40 - 16:40

**Symposium: Will the pulmonologist still play a role in the management of screen-detected pulmonary nodules?**

**Aims:** To describe non-invasive methods of early detection, diagnosis and confirmation of thoracic cancers and their effects on the role of pulmonologists in patient management.

**Disease(s):** Thoracic oncology

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

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

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

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<tr>
<td>15:40</td>
<td>Introduction</td>
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<td>15:45</td>
<td>The challenge for the endoscopist</td>
<td>Erik H.F.M. van der Heijden (Nijmegen, Netherlands)</td>
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<td>15:55</td>
<td>Issues other than tissue: non-invasive biomarkers of early stage lung cancer</td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
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<td>16:05</td>
<td>Radiologic early detection of early thoracic cancers: the role of artificial intelligence</td>
<td>Wieland Voigt (Berlin, Germany)</td>
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<tr>
<td>16:15</td>
<td>The challenge for the pathologist and pulmonologist: liquid biopsy in the diagnosis of early stage lung cancer</td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<td>16:25</td>
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### Studio Paris  Session 318  15:40 - 16:40

**Hot topics: Innovations in airway innervation: treatments for chronic cough**

**Aims:** To better understand 1) the innervation of the airways and how novel therapies may act on airway nerves; 2) the concept of cough reflex hypersensitivity and how that may manifest in clinical diseases, not only chronic cough patients but also in chronic respiratory diseases; 3) the mechanism of action, potential clinical effects and utility of a range of P2X3 antagonists in development; the mechanism of action, potential clinical effects and utility of other new anti-tussive therapies currently in development.

**Disease(s):** Airway diseases

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

**Chairs:** Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

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<td>Introduction</td>
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<td>15:45</td>
<td>Physiology of cough and denervation of the airways</td>
<td>Giovanni A. Fontana (Vaglia (FI), Italy)</td>
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<td>15:55</td>
<td>Differential diagnosis of chronic cough</td>
<td>Imran Satia (Hamilton (ON), Canada)</td>
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<td>16:05</td>
<td>Cough reflex hypersensitivity: a treatable trait?</td>
<td>Eva Millqvist (Skovde, Sweden)</td>
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<tr>
<td>16:15</td>
<td>Novel treatments of chronic cough</td>
<td>Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)</td>
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<td>16:25</td>
<td>Discussion and Q &amp; A</td>
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Expert view: Smoking, nicotine and COVID-19 myths and facts. What is the evidence?

Aims: To discuss whether smoking is a risk factor for SARS-CoV-2 infection and severe disease, and how smoke emitted from a cigarette or exhaled by the smoker may constitute a vehicle for SARS-CoV-2 transmission. To discuss the epidemiologic evidence on the prevalence of smoking among COVID-19 inpatients; the association of smoking with COVID-19 severe disease and case-fatality rate. To discuss the biologic plausibility on how smoking encourages infection and worsens COPD and other respiratory diseases. To discuss mechanistic pathways that may explain the link between nicotine and COVID-19 progression and outcome. To highlight the conflicting evidence on COVID-19 and smoking, research gaps and implications for public health or healthcare preventative approaches and clinical risk assessment.

Disease(s): Airway diseases, Respiratory infections, Thoracic oncology

Method(s): Epidemiology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

Chairs: Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

16:40  Introduction

16:43  Is smoking a major risk factor for COVID-19 infection and severe disease?
   Filippos T. Filippidis (Oxford, United Kingdom)

16:53  Is nicotine the hidden link between COVID-19 and smoking?
   Patrizia Russo (Rome, Italy)

17:03  Discussion

Channel 1  Session 320  16:50 - 17:50

Respiratory medicine meets other disciplines: Rheumatology: understanding connective tissue disease in patients with interstitial lung disease

A joint ERS/European League Against Rheumatism (EULAR) session

Aims: To describe a diagnostic approach for patients presenting with respiratory symptoms and suspected connective tissue disease (CTD); to evaluate the evidence associated with indications for biopsy, including determining preferences for cryobiopsy versus video-assisted thoracoscopic surgery (VATS); and to determine the benefits and revise recommendation for therapy in CTD, including indications for monoclonal antibody (AB) therapy, particularly rituximab.

Disease(s): Interstitial lung diseases

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Physiologist

Chairs: Michael Tamm (Basel, Switzerland), Gabriela Riemekasten (Lübeck, Germany)

16:50  Introduction

16:55  Interstitial lung disease (ILD) and multicompartiment assessment of CTD: where should the respiratory physician begin?
   Christopher P. Denton (London, United Kingdom)

17:05  Does histology matter in ILD-CTD?
   Venerino Poletti (Forlì, Italy)

17:15  Fibrotic CTD and interstitial pneumonia with autoimmune features (IPAF): immunosuppressive or/and anti-fibrotic treatment?
   Sonye Danoff (Baltimore, United States of America)

17:25  B-cell suppressive therapy and monoclonal antibodies in CTD: does one size fit all?
   Diego Kyburz (Basel, Switzerland)

17:35  Discussion and Q&A
### Disease(s)
- Airway diseases
- Thoracic oncology
- Respiratory critical care

### Method(s)
- Pulmonary rehabilitation
- Surgery
- Respiratory intensive care
- Endoscopy and interventional pulmonology
- Cell and molecular biology

### Chairs
- Marcello Migliore (Catania (CT), Italy), Dragan R. Subotic (Basel, Switzerland)

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**Channel 3**  
**Session 322**  
**16:50 - 17:50**

**Oral presentation: Challenging issues in thoracic surgery**  
Abstracts presented in this session are also available as E-posters from 24 August 2020

### Disease(s)
- Airway diseases
- Thoracic oncology
- Respiratory critical care

### Method(s)
- Pulmonary rehabilitation
- Surgery
- Respiratory intensive care
- Endoscopy and interventional pulmonology
- Cell and molecular biology

### Chairs
- Marcello Migliore (Catania (CT), Italy), Dragan R. Subotic (Basel, Switzerland)

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**4079**  
**Introduction**

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**4080**  
**Late Breaking Abstract - GATA-3 in lung C D4+T cells drives Interleukin-10 deficiency-induced lung inflammation in asthma**  
Zuqin Yang (Erlangen, Germany), Nina Li, Julia Koelle, Ralf Joachim Rieker, Susetta Finotto

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**4081**  
**Airway sensory nerve sensitivity in adolescents with eosinophilic and non-eosinophilic asthma**  
Hajar Ali (Wellington, New Zealand), Collin Brooks, Julian Crane, Richard Beasley, Graham Le Gros, Stephen Holgate, Peter Gibson, Philip Pattemore, Thorsten Stanley, Shi-Eak Yc Tzeng, Neil Pearce, Jeroen Douwees

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**4082**  
**Quantitative LC-M S/M S identifies significantly altered protein profiles in bronchial lavage fluid in non-allergic and allergic asthma**  
Emma Boberg (Gothenburg, Sweden), Cecilia Lässer, Carina Malmhäll, Kristina Johansson, Henric Olsson, Madeleine Rådinger

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**4083**  
**Oxidative stress and mitochondrial dysfunction in a novel in vivo exacerbation model of severe asthma**  
Jack Lowe (London, United Kingdom), Ian Adcock, Coen Wiegman

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**4084**  
**Introduction**

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**4085**  
**Late Breaking Abstract - An updated meta-analysis of uniportal versus multiportal video-assisted thoracoscopic lobectomy for lung cancer.**  
Dimitrios Magouliotis (Larisa, Greece), Maria Fergadi, Kyriakos Spiliopoulos, Kalliopi Athanassiadi

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**4086**  
**Sublobar resection versus lobectomy in non-small cell lung cancer: a propensity matched analysis**  

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**4087**  
**Safety Analysis of Superior Vena Cava Resection for Extended Thymic Epithelial Neoplasms**  
Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Giulia Sedda, Lorenzo Spaggiari

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**4088**  
**Early venovenous extracorporeal membrane oxygenation for idiopathic post-pneumonectomy pulmonary edema.**  
Agathe Seguin-Givelet (Paris, France), Charles Moulin, Philippe Girard, Konstantinos Zannis, Laurent Tric, Jean-Luc Leguillou, Thibault Vieira, Dominique Gossot, Christian Lamer
Role of chemokines, their gene polymorphisms in resectable NSCLC
marie drösslerová (Opava, Czech Republic), Martina Šterclová, Martina Vašáková, Alice Tašková, Vladislav Hytych, Eva Richterová, Milada Matějčková

Outcome of surgical and endoscopic lung volume reduction with valves in patients with severe lung emphysema: current data of 246 patients with 3 months follow-up from a Lung Emphysema Registry in Germany
Pavlina Lenga (Berlin, Germany), Christian Grah, Jens-Carsten Rückert, Joachim Pfannschmidt, Stefan Eggeling, Sylke Kurz, Gunda Leschber, Bernd Schmidt, Paul Schneider, Andreas Gebhardt, Birgit Becke, Ralf-Harto Hübner

Eligibility for Lung Volume Reduction in patients with COPD attending Pulmonary Rehabilitation
Sara Catherine Buttery (London, United Kingdom), Adam Lewis, Samuel V Kemp, Jennifer K Quint, Michael C Steiner, Nicholas S Hopkinson

Introduction

Risk Factors Associated to Cardiovascular Events after Bronchiectasis Exacerbation: A Prospective Study.
Laura Feced Olmos (Valencia, Spain), Raúl Méndez, Paula González-Jiménez, Leyre Bouzas, Alba Piró, Victoria Alcaraz-Serrano, Rosanel Amaro, Giulia Scioscia, Antoni Torres, Rosario Menéndez

Endotyping bronchiectasis through multi-omic profiling
Holly Rachael Keir (Dundee (Angus), United Kingdom), Amelia Shoemark, Megan Crichton, Alison Dicker, Jennifer Pollock, Ashley Giam, Andrew Cassidy, Christopher Fong, Simon Finch, Elizabeth Furrie, Guillermo Suarez-Cuartin, Thomas C Fardon, Gisli G Einarsson, J Stuart Elborn, Stefano Aliberti, Orlol Sibola, Jeffrey T-J Huang, James D Chalmers

“Integrative microbiomics” reveals a disrupted interactome in bronchiectasis exacerbations
Jayanth Kumar Narayana (Singapore, Singapore), Michaël Mac Aogain, Pei Yee Tiew, Nur Atikah Binte Mohamed Ali, Albert Yick Hou Lim, Holly Keir, Alison Dicker, Kai Xian Thng, Akina Tsang, Teck Boon Low, Thun How Ong, Brian Oliver, Giam Yan Hui, Augustine Tee, Mariko Siyue Koh, John Arputhan Abisheganaden, Krasimira Tsaneva-Atanasova, James Chalmers, Sanjay Harish Chotirmall

A randomized controlled trial of 4 weeks of airway clearance with oscillating positive end expiratory pressure device versus autogenic drainage in people with bronchiectasis
Michal Shteinberg (Haifa, Israel), Naama Yaari, Nili Stein, Lea Bentur, Galit Livnat, Yoshai Adir

The Relationship Between Symptoms, Exacerbations And Treatment Response in Bronchiectasis
Yonghua Gao (zhengzhou, China), Hani Abo-Leyah, Simon Finch, Mike Lonergan, Stefano Aliberti, Anthony De Soyza, Thomas C Fardon, Gregory Tino, James D Chalmers

Efficacy of inhaled dry powder tobramycin (TOBI Podhaler) in P. aeruginosa infected patients with bronchiectasis - iBEST study

Discussion

Channel 4 Session 323 16:50 - 17:50
Oral presentation: Bronchiectasis: epidemiology, endotyping and therapy
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Airway diseases
Method(s): General respiratory patient care Pulmonary function testing Imaging Epidemiology Public health Pulmonary rehabilitation Cell and molecular biology
Chairs: Pierre-Régis Burgel (Sorbonne Paris Cité, France), Apostolos Bossios (Stockholm, Sweden)

Channel 5 Session 324 16:50 - 17:50
Oral presentation: Physical activity and chronic lung disease: once a new kid, now growing up
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Airway diseases
Method(s): Endoscopy and interventional pulmonology Surgery Pulmonary rehabilitation General respiratory patient care Epidemiology Public health Transplantation
Chairs: Agnieszka Lewko (London, United Kingdom), Margareta Emmner (Uppsala, Sweden)
Introduction

Late Breaking Abstract - Physical activity in lung transplant recipients during Belgian COVID-19 lockdown
Sofie Breuls (Leuven, Belgium), Heleen Demeyer, Astrid Blondeel, Geert M. Verleden, Wim Janssens, Robin Vos, Thierry Troosters

Characteristics of patients with COPD using mobile apps in daily life
Ana Oliveira (Hamilton, Canada), Sofia Flora, Liliana Santos, Nuno Morais, Jose Ribeiro, Fernando Silva, Candida Silva, Bruno Carreira, Ruben Caceiro, Dinesh Kumar, Alda Marques, Dina Brooks, Chris Burtin, Joana Cruz

Association between air pollution and physical activity in patients with COPD
Maria Koreny (Wien, Austria), Magda Bosch De Basea, Ane Arbillaga-Etxarri, Marta Cirach, Anaël Barberan-Garcia, Eulàlia Borrell, Elena Gimeno-Santos, Maria Foraster, Alicia Marin, Pere Vall-Casas, Jordi Vilaró, Robert Rodriguez-Roisin, Judith Garcia-Aymerich

Effects of game based approach in patients with primary ciliary dyskinesia: a randomized controlled trial
Hazard Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Melda Saglam, Aslihan Cakmak, Naciye Vardar Yagli, Ebru Calik Kutukey, Erkan Sumer, Hayriye Ugur Ozcelik

Identification of asthma phenotypes based on extrapulmonary treatable traits
Patricia Duarte Freitas (Antibes, France), Rafaela Fagundes Xavier, Vanessa M Mcdonald, Peter G Gibson, Laura Cordova-Rivera, Karina C Furlanetto, Joice M De Oliveira, Regina M Carvalho-Pinto, Alberto Cukier, Rafael Stelmach, Celso R F Carvalho

Efficacy of a physical activity coaching programme after hospitalisation for a COPD exacerbation
Beatriz Valeiro (san diego, Spain), Maria Antonia Ramon, Beatriz Valeiro, Esther Rodriguez, Paula Pérez, Alba Gómez, Ana Isabel Mayer, Alejandro Pasarin, Jordi Ibañez, Jaume Ferrer

The effect of lung volume reduction on the success of physical activity coaching in patients with severe COPD
Astrid Blondeel (Leuven, Belgium), Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Stephanie Everaerts, Sofie Breuls, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens

Discussion

Symposium Madrid Session 325 16:50 - 17:50
Symposium: Chronic respiratory diseases and their origins in early life: how physiology meets clinical medicine

Aims: To determine the long-term effects of early life factors, such as intrauterine growth restriction, prenatal and postnatal exposure to tobacco smoke and other pollutants, preterm delivery and childhood respiratory illnesses, on the subsequent development of chronic respiratory disease; to evaluate the effectiveness of appropriate preventive and management strategies in reducing the burden of chronic pulmonary diseases; to describe improvements in antenatal and neonatal care that minimise risks to the developing lung and reduce prenatal and postnatal exposure to environmental pollutants, including passive tobacco smoke; to describe lung diseases potentially associated with early life insults; and to emphasise the importance of better education regarding diet, exercise and avoidance of smoking in preserving lung function in susceptible adults.

Disease(s): Airway diseases Paediatric respiratory diseases Sleep and breathing disorders
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist
Chairs: Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

16:50 Introduction

16:55 Early life influences on the development of chronic pulmonary diseases: the role of the paediatrician
Gwyneth Davies (London, United Kingdom)

17:05 Early origins of chronic pulmonary disease: the role of the adult pulmonologist
Cecilie Svanes (Bergen, Norway)

17:15 Effects of lung development on pulmonary function tests: from early life to chronic respiratory disease
Elianne J.L.E. Vrijlandt (Groningen, Netherlands)

17:25 Pulmonary diseases and ageing
Maria Rosa Faner Canet (Barcelona, Spain)

17:35 Discussion and Q & A
Live from the clinic: Paediatric procedures

**Aims:** To explain how several procedures in paediatrics may be performed and organised. Children from a special group of patients and many procedures that are routine in adults may be challenging in children. Bronchoscopy can provide crucial information in children with several complaints such as stridor, recurrent airways infections or unexplained respiratory symptoms. In most centres, bronchoscopy is performed under general anaesthesia requiring excellent communication with anaesthesiologists. Multiple breath washout (MBW) tests in children are very sensitive in picking up airways abnormalities in children and can be performed in children of all ages. Still, expertise is needed to perform a successful MBW test in a preschool child. While MBW tests require at least some cooperation from the child, the hypoxic challenge test does not, at least if performed in a body box. Lastly, CT scanning of the chest may be much more informative if scanning is spirometry controlled. This procedure will be demonstrated with valuable input from a paediatric radiologist.

**Disease(s):** Paediatric respiratory diseases  
**Method(s):** Endoscopy and interventional pulmonology  
**Tag(s):** Clinical

**Target audience:** Paediatrician

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jan van Meerbeeck (Edegem (Antwerp), Belgium)

**Discussion and Q&A**

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>16:50</td>
<td>Introduction</td>
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<tr>
<td>16:55</td>
<td><strong>Keynote: Diagnostic and the therapeutic applications of bronchoscopy</strong></td>
<td>Ernst Eber (Graz, Austria)</td>
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<td>17:05</td>
<td>Bronchoscopy in a child</td>
<td>Dirk Schramm (Düsseldorf, Germany)</td>
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<td>17:45</td>
<td>Multiple breath washout in toddlers</td>
<td>Kathryn Ramsey (Bern, Switzerland)</td>
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<td>18:05</td>
<td>Hypoxic challenge test in preschool children</td>
<td>Stephanie J.A. Balink (Rotterdam, Netherlands)</td>
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<td>18:25</td>
<td>Spirometry controlled chest CT</td>
<td>Pierluigi Ciet (Rotterdam, Netherlands), Harm Tiddens (Rotterdam, Netherlands)</td>
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**Clinical trials session: ALERT: Infection in adults and children**

**Chairs:** Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

**Discussants:** Stefano Alberti (Milano (MI), Italy), Gernot G.U. Rohde (Frankfurt am Main, Germany)

**Discussion and Q&A**

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>16:50</td>
<td>Introduction</td>
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<tr>
<td>16:31</td>
<td>Late Breaking Abstract - Duration of amoxicillin-clavulanate for protracted bacterial bronchitis in children: a randomized controlled trial</td>
<td>Tom Ruffles (hove, United Kingdom), Tom Ruffles, Vikas Goyal, Julie Marchant, Brent Masters, Stephanie Yerkovich, Helen Buntain, Anne Cook, Andre Schultz, Lesley Versteegh, Anne Chang</td>
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<td>16:33</td>
<td>Wrap-up by discussant and discussion</td>
<td>Stefano Alberti (Milano (MI), Italy)</td>
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<td>16:34</td>
<td>Late Breaking Abstract - Effects of long-term Tobramycin Inhalation Solution (TIS) once daily on exacerbation rate in patients with non-cystic fibrosis bronchiectasis. The BATTLE Randomized Controlled Trial</td>
<td>Lotte Terpstra (Alkmaar (NH), Netherlands), Lotte Terpstra, Inez Bronsveld, Jeroen Doedeman, Wouter Rozenmeijer, Harry Heijerman, Wim Boersma</td>
</tr>
</tbody>
</table>
Late Breaking Abstract - Efficacy of DPP1 inhibition with brensocatib in subgroups of patients with bronchiectasis - the WILLOW study

Late Breaking Abstract - Changes in respiratory symptoms during 48 weeks treatment with ARD-3150 (inhaled liposomal ciprofloxacin) in bronchiectasis: results from the ORBIT-3 and -4 studies
James D. Chalmers (Dundee (Angus), United Kingdom), James D. Chalmers, David Cipolla, Bruce Thompson, Angela M Davis, Anne O'Donnell, Gregory Tino, Igor Gonda, Charles Haworth, Juergen Froehlich

Wrap-up by discussant and discussion
Gernot G.U. Rohde (Frankfurt am Main, Germany)

Studio Vienna Session 328 17:20 - 17:50
Pro/Con debate: Is the global warming potential of inhaler propellants significant?
Aims: To contrast inhaler types with respect to their global warming potential; to identify the importance of the inhaler device in achieving clinical efficacy for the patient; to list all the elements of a patient’s life impacting on the environment; to choose the right inhaler for the right patient.

Disease(s): Airway diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, General practitioner, Paediatrician, Physician in Pulmonary Training, Clinical researcher, Nurse, Medical Student

Chairs: Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

17:20 Introduction

17:23 Pro
Christer Janson (Uppsala, Sweden)

17:33 Con
Omar S. Usmani (London, United Kingdom)

17:43 Discussion

Channel 1 Session 329 18:00 - 19:00
Oral presentation: Covering COVID - the best abstracts
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Respiratory critical care Pulmonary vascular diseases Interstitial lung diseases Airway diseases
Method(s): General respiratory patient care Cell and molecular biology Respiratory intensive care Endoscopy and interventional pulmonology Imaging Pulmonary function testing Epidemiology Public health

Chairs: George Karakiulakis (Thessaloniki, Greece), Chair to be confirmed

1422 Introduction

1443 Late Breaking Abstract - Persisting pulmonary impairment following severe SARS-CoV-2 infection, preliminary results from the CovILD study
Sabina Sahanic (Innsbruck, Austria), Thomas Sonnweber, Alex Pizzini, Gerlig Widmann, Anna Lugner, Magdalena Aichner, Anna Böhm, Guenter Weiss, Christoph Tschurtenschenthaler, Verena Petzer, David Haschka, Markus Theurl, Daniela Lener, Sophie Wildner, Rosa Bellmann-Weiler, Ewald Wöll, Judith Löffler-Ragg, Ivan Tancevski

1444 Late Breaking Abstract - The impact of the use of helmet CPAP in a general ward during COVID-19 outbreak
Ilaria Valentini (Rimini (RN), Italy), Susanna Mascetti, Anna Filomena Ferravante, Alessia Fabiano, Andrea Mussoni, Stefania Pezzi, Giuliano Malatesta, Alessandra Gennari, Elisa Marchionni, Ilaria Contadini, Francesco Cristini, Eva Bernardi, Luigi Arcangelo Lazzari Agli

1445 Late Breaking Abstract - A SINGLE-CENTER EXPERIENCE WITH HIGH-FLOW NASAL CANNULA FOR COVID-19 PATIENTS WITH ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)
Cristina Matéseven Lopez (Madrid, Spain), José Maria Diaz García, Carolina Panadero Paz, Fernando García Prieto, Beatriz Moreno Raboso, Maria Teresa Rio Ramirez, Carmen Maria Acosta Gutiérrez, Cristina López Riolobos, Mariara Calderón Alcalá, Zully Vásquez Gambasica, Pilar Andrés Ruzaña, José Luis García Satué, Alicia Ruiz Martín, Sara Calero Pardo, Araceli Abad Fernández
Late Breaking Abstract - The role of bronchoscopy in COVID-19 patients during the SARS-CoV-2 pandemic.
Thomas Malfait (Velzeke - Rudderschove (Zottegem), Belgium), Jozefien De Clercq, Linos Vandekerkhove, Jerina Boelens, Stien Vandendriessche, Liselotte Coorevits, Bruno Verhasselt, Elizaveta Padalko, Simon Malfait, Katrien Hertegonne, Fré Bators, Dieter Stevens, Simon Malfait, Katrien Hertegonne, Wim Van Den Heuvel, Quirijn Van Der Mast, Catrien Van Der Meer, Shoko Vos, Sarah Van Belle, Sanne Vermorgen, Johannes G. Van Der Hoeven, Mihai G. Netea

Late Breaking Abstract - Morphological and immunophenotypical features of lung tissue in early phase of COVID-19
Claudia Ravaglia (Forlì, Italy), Claudio Doglioni, Marco Chilosi, Giulio Rossi, Alessandra Dubini, Sara Piciucchi, Federica Pedica, Antonella Arcadu, Silvia Puglisi, Luca Donati, Giovanni Poletti, Stefano Maitan, Vanni Agnoletti, Emanuele Russo, Franco Stella, Venerino Poletti

Late Breaking Abstract - Plasma cells and endothelitis in COVID-19 lung pathology
Katrien Grunberg (Amsterdam, Netherlands), Frank Van De Veerdonk, Monika Looijen-Salamon, Michel Van Der Heuvel, Quirijn Van Der Mast, Catrien Van Der Meer, Shoko Vos, Sarah Van Belle, Sanne Vermorgen, Johannes G. Van Der Hoeven, Mihai G. Netea

Late Breaking Abstract - Organoids and lung-on-chip to study SARS-CoV-2-mediated lung injury
Mirjam Kiener (Bern, Switzerland), Lea De Maddalena, Nuria Roldan, George N. Thalmann, Thomas Geiser, Nina Hobi, Marianna Kruthof-De Julio

Late Breaking Abstract - ACE2 expression in lower airway epithelial cells is increased with age and in males, but is less in asthma.
Peter Wark (New Lambton Heights (NSW), Australia), Prabuddha Pathinyake, Gerard Kaiko, Sukhwinder Sohal, Christopher Oldmeadow, Nathan Bartlett, Stephen Stick, Phil Hansbro, Anthony Kicic

Late Breaking Abstract - Identifying and phenotyping COVID-19 patients using machine learning on chest x-rays
Jason Fleischer (Princeton, United States of America), Mohammad Tariqul Islam

Late Breaking Abstract - Development and validation of an automated radiomic CT signature for detecting COVID-19
fadila Zerka (Liege, Belgium), Akshayaa Vaidyanathan, Julien Guiot, Louis Deprez, Denis Danthine, Grégoire Canivet, Mathieu Stéphane, E Eftaxia, Monique Henket, M Thys, Philippe Lambin, Nathan Tsoutzidis, Benjamin Miraglio, Sean Wlash, Paul Meunier, Wim Vos, Ralph Leijenaar, Pierre Lovinfosse

Discussion

Channel 2  Session 330  18:00 - 19:00
Oral presentation: How to overcome deficiencies in skills in bedside training by virtual tools and simulation- where do we go?
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Sleep and breathing disorders, Pulmonary vascular diseases, Airway diseases, Thoracic oncology
Method(s) : General respiratory patient care, Endoscopy and interventional pulmonology, Public health
Chairs : Robert Primhak (Sheffield (South Yorkshire), United Kingdom), Carolin Sehlbach (Maastricht, Netherlands)

Introduction

Negative online images more common in chronic obstructive pulmonary disease (COPD) than asthma or heart disease
Freya Berenyi (Melbourne, Australia), Natasha Smallwood

Machine learning tools to detect COPD patients with Excessive Sedentary living and Physical Inactivity
Bernard Aguilaniu (Grenoble, France), David Hess, Bruno Degano, Christophe Pison, Anestis Antoniadis

The effect of Clip-tone® and its smartphone application on optimization of metered-dose inhaler inhalation technique
Mark Sanders (Harlow (Essex), United Kingdom), Waleed Wael, Raghda R.S. Hussein, Rania M. Sarhan, Waleed Ramadan, Mohamed Abdelrahim

“NIVSIM ” a simulation based education (SBE) intervention to improve the quality of care delivered for patients receiving acute non-invasive ventilation (NIV)
Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Nikesh Devani, Laura Walters, Amanda Thomas

Evaluating e-consultation implementation in Lung Cancer patients. Are we doing well?
Marcos Zuil Martin (Zaragoza, Spain), Laura Pérez, Noelia Sánchez Sánchez, Paloma Clavería, Mª Teresa Rosell, Javier Lázaro, Diego Márquez, Alicia Blasco, Agustín Rodriguez, Eva Anadón, Eva Fernández, Milagros Bone, José Angel Carretero
Pleural procedure confidence and competence in postgraduate UK medical trainees
Andrew Singer (London, United Kingdom), Anand Sundaralingam, William Ricketts

Pulmonary hypertension training requirements in the UK. A survey of UK respiratory trainees.
Michael Bridgett (Hassocks, United Kingdom), Brendan Madden

Cognitive task analysis of flexible bronchoscopy for the design of simulation-based training
Marleen Groenier (Enschede, Netherlands), Julia Kania, Michiel Wagenaar, Emanuel Citgez, Martin Schmettow

Young Pneumologists in Germany - working conditions in patient care and science
Julia Wälscher (Essen, Germany), Thomas Bahmer, Christoph Fisser, Tina Schreiber, Myriam Koch, Matthias Raspe

Discussion

Channel 3  
Session 331  
18:00 - 19:00

Oral presentation: Screening and imaging in lung cancer
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Thoracic oncology, Interstitial lung diseases

Method(s): Imaging, Epidemiology, Public health

Chairs: Walter De Wever (Leuven, Belgium), David Baldwin (Nottingham (Nottinghamshire), United Kingdom)

Late breaking abstract - External validation of exhaled-breath analysis to detect non-small cell lung cancer: a step-wise design to simultaneously develop and validate a prediction model
Sharina Kort (Enschede, Netherlands), Marjolein Brusse-Keizer, Jan-Willem Gerritsen, Hugo Schouwink, Emanuel Citgez, Frans De Jongh, Daiana Stolz, Michel Van Den Heuvel, Wouter Van Geffen, John Van Putten, Lisanne Kastelijn, Ben Van Den Borne, Job Van Der Palen

Invasiveness assessment of deep leaning method for pulmonary subsolid nodules
Jiajun Deng (Shanghai, China), Yunlang She, Jun Wang, Tingting Wang, Mengmeng Zhao, Yang Wang, Yaofeng Wen, Xiwen Sun, Dong Xie, Chang Chen

Validation of a deep learning-based computer-aided system for lung nodule detection in a Chinese lung cancer screening program
Sunyi Zheng (Groningen, Netherlands), Xiaonan Cui, Marjolein Heuvelmans, Yihui Du, Grigory Sidorenkov, Monique Dorrius, Raymond Veldhuis, Matthijs Oudkerk, Geertruida De Bock, Peter Van Ooijen, Rozemarijn Vliegenthart, Zhaoxiang Ye

Effect of slab thickness on pulmonary nodule detection using maximum intensity projection in a deep learning-based computer-aided detection system
Sunyi Zheng (Groningen, Netherlands), Xiaonan Cui, Marleen Vonder, Raymond Veldhuis, Monique Dorrius, Zhaoxiang Ye, Rozemarijn Vliegenthart, Matthijs Oudkerk, Peter Van Ooijen

A comparison of MRI findings in cases with progressive massive fibrosis and lung cancer
Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Oktay Algin, Gülden Sari

Towards personalized lung cancer CT screening in Europe
Carlijn Van der Aalst (Rotterdam, Netherlands), Matthijs Oudkerk, Kevin Ten Haaf, David Baldwin, Rachael Murray, Emma O'Dowd, Rudolf Kaaks, Verena Katzke, Nicoleas Becker, Josep Espinàs, Josep Borras, Clemens Aigner, Corinne Baeyler, David Planchard, Sam Janes, Gabriella Sozzi, Ugo Pastorino, Harry De Koning

Lung cancer screening - what does it mean for our practice?
Kiran Desai (Chelmsford, United Kingdom), Claire Calderwood, Erik Skyllberg, Mohammad Moghal, Rajesh Banka

Discussion

Channel 4  
Session 332  
18:00 - 19:00

Oral presentation: Use of thoracic ultrasound in different clinical settings
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Respiratory critical care, Thoracic oncology, Sleep and breathing disorders, Interstitial lung diseases

Method(s): General respiratory patient care, Respiratory intensive care, Endoscopy and interventional pulmonology, Imaging, Pulmonary function testing

Chairs: Michiel J. Thomeer (Tielt (BT), Belgium), Pia Iben Pietersen (Odense NØ, Denmark)
Thoracic ultrasound (TUS) training: Regional survey of respiratory specialty trainees (RST) from West Midlands Deanery (WMD), UK
Qaiser Abdullah (Stoke on trent, United Kingdom), Asif Azam, Muhammad Badar Ganaie

Lung ultrasound and ultrasound elastography for diagnosis and followup of interstitial lung diseases
Zarifa Abdullayeva (Ankara, Turkey), Müge Aydoğan, Ebru Oztürk, Nilgün Yılmaz Demirci, Haluk Türktaş, Nurdan Kükürt

Focused sonographic examination of Diaphragm, Ultrasound lung, DVT screen and Heart scan (ECHO) in unselected patients getting admitted in pulmonary medicine ward - The DUDE study
Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari K, Uma Devaraj

Utility of ultrasonography in the assessment of the pharyngeal airway
Shumit Saha (Toronto, Canada), Anand Rattansingh, Keerthana Viswanathan, Anamika Saha, Rosemary Martino, Azadeh Yadollahi

New application of point-of-care lung ultrasound in pediatric asthma exacerbations
Marina Attanasi (Chièt (CH), Italy), Annamaria Porreca, Francesca Piloni, Francesco Sansone, Sabrina Di Pillo, Francesco Chiarelli, Simone Sferrazza

Anesthesia experience of EBUS/EUS-B
Marcos Oliveira (Aguada de Cima, Portugal), Carla Mourato, Sónia Pinho, José Manuel Silva, Michele Santis, Lourdes Barradas, Paulo Freitas

Choice of pleural puncture site: Prospective comparative study between clinical exam and ultrasound
Mariem Ferchichi (Tunis, Tunisia), Islam Mejri Ep Ajili, Mariem Chaabane, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Mohtsen

Introduction

Late Breaking Abstract - Ventilatory function and diet quality in US adults - Evidence from the National Health and Nutrition Examination Survey (NHANES)
Kirstie Ducharme-Smith (United States of America), Francisca De Castro Mendes, Rodrigo Villegas, Gustavo Mora-Garcia, Maria Stephany Ruiz-Diaz, Andre Moreira, Vanessa Garcia-Larsen

Late Breaking Abstract - Association between dynamic expiratory tracheal collapse and obstructive sleep apnoea
Soriul Kim (Korea, Republic of Korea), Ki Yeol Lee, Robert D Abbott, Hye Ryeong Nam, Chol Shin

Reduced lung function and cognitive decline in ageing: a longitudinal cohort study.
Yutong Cai (London, United Kingdom), Wuxiang Xie, Fanfan Zheng, Xiaobo Han, Yanjun Ma, Rong Hua, Lixin Xie

DECT-derived PBV heterogeneity in a general population sample: The MESA Lung Study
Amin Motahari (Iowa City, United States of America), Emilia Hermann, Grant Hiura, Norrina Allen, Alain Bertoni, David A. Blumeke, Ali Eskandari, Erin D. Michos, Prashant Nagpal, Jim Pankow, Karen Stukovsky, Karol Watson, R. Graham Barr, Eric A. Hoffman

Cardiovascular comorbidities based on impaired pulmonary function in non-smoking population
Joo Hun Park (Seoul, Republic of Korea), Ji Eun Park, Woo Young Chung, Sung Chul Hwang, Ji Hyun Park, Bumhee Park, Lee Keu Sung, Yun-Jung Jung

Risk of future exacerbations among COPD patients - a real-world register-based cohort study (AvoidEx)
Claus Vogelmeier (Marburg, Germany), Marc Pignot, Fredrik Wiklund, Javier Nuevo, Gunilla Telg, Christer Janson

Use of NEWS2 to predict length of stay and in hospital mortality at exacerbation of COPD
Philip Stone (London, United Kingdom), Jennifer Quint, C Michael Roberts, John Hurst

Disease(s) : Airway diseases, Pulmonary vascular diseases, Sleep and breathing disorders
Method(s) : General respiratory patient care, Epidemiology, Pulmonary function testing, Respiratory intensive care, Imaging, Public health
Chairs : Om Prakash Kurmi (Hamilton (ON), Canada), Charlotte Bolton (Nottingham (Nottinghamshire), United Kingdom)
### Studio Madrid

#### Session 334  18:00 - 19:00

**Symposium: Exercise and sleep: from impaired function to new therapeutic strategies**

**Aims:** To describe interactions between sleep and exercise from healthy subjects to patients; to evaluate the effects of exercise testing and training on several important pathophysiological mechanisms associated with sleep disorders; and to describe the use of physical activity and exercise as parts of a multi-component individualised strategy to manage sleep disorders.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical student, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)

**Chairs:** Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Introduction</td>
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<tr>
<td>18:05</td>
<td>Sleep and exercise: a bidirectional relationship</td>
<td>Pierrick Arnal (Paris, France)</td>
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<tr>
<td>18:15</td>
<td>Exercise responses in patients with sleep apnoea</td>
<td>Ludger Grote (Göteborg, Sweden)</td>
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<tr>
<td>18:25</td>
<td>Blood pressure and exercise in sleep apnoea</td>
<td>Maria Bonsignore (Palermo, Italy)</td>
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<td>18:35</td>
<td>Physical activity and exercise training as therapeutic interventions for sleep apnoea</td>
<td>Monique Mendelson (Grenoble, France)</td>
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<tr>
<td>18:45</td>
<td>Discussion and Q &amp; A</td>
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### Studio Paris

#### Session 335  18:00 - 19:00

**Hot topics: Rethinking asthma**

**Aims:** To give insights into the management strategy and new treatments across the spectrum of asthma; to present evolution in our understanding of asthma phenotypes and endotypes and their relevance in daily clinical practice.

**Disease(s):** Airway diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Physiologist

**Chairs:** Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

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<tr>
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<tbody>
<tr>
<td>18:00</td>
<td>Introduction</td>
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<tr>
<td>18:05</td>
<td>Refining asthma treatment for mild asthma</td>
<td>Roland Buhl (Mainz, Germany)</td>
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<td>18:14</td>
<td>Identifying patients with severe asthma that will benefit from biological therapy</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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<tr>
<td>18:23</td>
<td>What is it about responders and non-responders in asthma? From biology to physiology and treatment</td>
<td>Marco Idzko (Wien, Austria)</td>
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<tr>
<td>18:32</td>
<td>Is severe neutrophilic asthma a separate entity?: Pro</td>
<td>Anke-Hilse Maitland-van der Zee (Amsterdam, Netherlands)</td>
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<tr>
<td>18:41</td>
<td>Is severe neutrophilic asthma a separate entity?: Con</td>
<td>Parameswaran Nair (Hamilton (ON), Canada)</td>
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</table>
Lungs on fire: Pulmonary vascular diseases?

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Thoracic surgeon, Radiologist, Nurse, Respiratory critical care physician

**Chairs:** Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

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

<table>
<thead>
<tr>
<th>Case 1 - Author: Sai Charan Govinda Bodi (United Arab Emirates)</th>
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<td>Discussion and Q &amp; A</td>
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<th>Case 2 - Author: Somayeh Sadeghi (Iran)</th>
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<th>Case 3 - Author: Johad Khoury (Israel)</th>
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<td>Discussion and Q &amp; A</td>
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<th>Case 4 - Author: Anca Macri (Romania)</th>
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<td>Discussion and Q &amp; A</td>
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**18:00** Introduction

**18:02** Presentation of cases by the session facilitator
*Joanna Pepke-Zaba (Cambridge, United Kingdom)*

**19:00** Discussion and Q & A

**19:15-20:15** INDUSTRY EVENING SYMPOSIUM

**20:30-21:30** INDUSTRY EVENING SYMPOSIUM
### Channel 1

**Session 353**

**Language session: Chinese programme 2020: Part II**

**Joint ERS/CTS session**

**Aims:** To describe new advances in respiratory medicine, as presented by experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine; and to present an overview on respiratory diseases, including their early diagnosis and public health, concerns, as well as sleep disorders and pulmonary embolism in Europe and China. 

This programme will be available in Chinese and English.

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

**Tag(s):** Clinical

**Chairs:** Marion Delcroix (Leuven, Belgium), Jieming Qu (Shanghai, China)

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<tr>
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<tbody>
<tr>
<td>09:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>09:35</td>
<td><strong>Pulmonary embolism in China: disease burden, management and prevention</strong></td>
<td>Zhenguo Zhai (Beijing, China)</td>
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<tr>
<td>09:45</td>
<td><strong>Sleep disordered breathing management in China during the COVID-19 pandemic</strong></td>
<td>Yi Xiao (Beijing, China)</td>
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<tr>
<td>09:55</td>
<td><strong>Challenges and perspectives in obstructive sleep apnoea: report of an ad hoc working group of the Sleep Disordered Breathing Group of the European Respiratory Society and the European Sleep Research Society</strong></td>
<td>Winfried J. Randerath (Solingen, Germany)</td>
</tr>
<tr>
<td>10:05</td>
<td><strong>State of the art in pulmonary hypertension</strong></td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<tr>
<td>10:15</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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</table>
The Lung Clearance Index detects incomplete lung function recovery with acute respiratory events in school-age children with cystic fibrosis

Lucy Perrem (Toronto (ON), Canada), Sanja Stanojevic, Michelle Shaw, Renee Jensen, Julia Guido, Melinda Solomon, Hartmut Grasemann, Neil Sweezy, Stephanie Davies, D.B Sanders, Nancy Mcdonald, Sarah Isaac, Sylvia Jara, Charles Clem, Felix Ratjen

4315 Longitudinal assessment of Lung Clearance Index as a marker of disease progression in a cohort of children with cystic fibrosis and normal spirometry
Jacquelyn Spano (Palo Alto, United States of America), Sean Ryan, Carlos Milla

4316 Multivolume magnetic resonance imaging (1H-MRI) for the longitudinal assessment of cystic fibrosis (CF) lung disease: comparison with spirometry
Francesca Pennati (Milano (MI), Italy), Irene Borzani, Laura Moroni, Maria Chiara Russo, Andrea Aliverti, Carla Colombo

4317 Feasibility of unsedated lung MRI in preschoolers with Cystic fibrosis - a comparison to lung function.
Christoph Corin Willers (Bern, Switzerland), Bettina S. Frauchiger, Yasmin Salem, Philipp Latzin, Kathryn Ramsey

Discussion

Channel 3  Session 355  09:30 - 10:30

Oral presentation: Lung epithelial development and repair in three-dimensions
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Interstitial lung diseases  Pulmonary vascular diseases  Airway diseases
Method(s): Cell and molecular biology
Chairs: Sabine Bartel (Groningen, Netherlands), Colin Bingle (Sheffield (South Yorkshire), United Kingdom)

4319 Introduction

4320 Late Breaking Abstract - IPF lung-ECM subjected to cyclic stretch affect cellular activity
Bryan Falcones Olarte (Barcelona, Spain), Linda Elovsson Rendin, Anna Löfdahl, Isaac Almendros Lopez, Jorge Otero, Xiao-Hong Zhou, Martin Silverborn, Leif Bjermer, Göran Dellgren, Ramon Farré, Gunilla Westergren-Thorsson

4321 Use of biomaterials to tissue engineer 3D models with lung organoids for in-vitro disease modelling
Isabel Uwagboe (London, United Kingdom), Sharon Mumby, Tankut Guney, Iain Dunlop, Ian Adcock

4322 Disease modelling following organoid-based expansion of airway epithelial cells

4323 HIF pathway activation is a core regulator of collagen structure-function in lung fibrosis
Christopher J Brereton (Southampton, United Kingdom), Robert Ridley, Franco Conforti, Liudi Yao, Aiman Alzetani, Ben Marshall, Sophie V Fletcher, Luca Richeldi, Yihua Wang, Donna E Davies, Mark G Jones

4324 Hypoxia is associated with a decrease of the expression of the polymeric Immunoglobulin Receptor in a model of human respiratory epithelium.
Ludovic Gerard (Bruxelles, Belgium), Bruno Detry, Charles Pilette

4325 Optimization of Human Lung-Chip cultures to investigate effects of biomechanics on primary airway epithelial cell biology
Anne M. van der Does (Leiden, Netherlands), Doris Roth, Sander Van Riet, Annemarie Van Schadewijk, Carolina Lucchesi, Geraldine A. Hamilton, Janna Nawroth, Pieter S. Hiemstra

4326 Interleukin-2 - induced vascular leak syndrome: clinically relevant in vitro recapitulation with a patient-derived lung-on-chip
Giulia Raggi (Bern, Switzerland), Nuria Roldan, Virginie Micaleff, Aude Rapet, Lea De Maddalena, Théo Imler, Laurene Froment, Thomas M. Marti, Ralph A. Schmid, Ekaterina Breous-Nystrom, Adrian B. Roth, Lauriane Cabon, Nina Hobi

4327 Air liquid interface (ALI)-grown immortalized human cell lines: a promising tractable model for human airway
Zeyad Alharbi (Sheffield (England), United Kingdom), Md. Miraj Kobad Chowdhury, Lynne Bingle, Colin Bingle

4328 Discussion

Channel 4  Session 356  09:30 - 10:30

Oral presentation: Quantitative imaging in diffuse lung disease
Abstracts presented in this session are also available as E-posters from 24 August 2020
## Disease(s)
- Interstitial lung diseases
- Airway diseases

## Method(s)
- Imaging
- Pulmonary function testing
- Physiology
- General respiratory patient care

### 4329 Introduction

#### Oxygen enhanced MRI biomarkers of lung function in interstitial lung disease
John Charles Waterton (MANCHESTER, United Kingdom), Marta Tibiletti, Josephine Naish, Matthew J Heaton, Paul Hughes, James A Eaden, Sarah Skeoch, Nazia Chaudhuri, Ian Bruce, Stephen M. Bianchi, Jim Wild, Geoff Jn Parker

#### Quantitative analysis of paired inspiratory and expiratory CT correlates highly with lung function measurements in COPD patients under tiotropium-olodaterol respimat
Felix J.F. Herth (Heidelberg, Germany), Cp Heussel, Oliver Weinheimer, Hu Kauczor, Mark Wielpuetz, Franziska Trudzinski, Frederick Trinkmann

#### Ventilation defect quantification on 3He MRI through deep learning: the MESA COPD Study
Xuzhe Zhang (New York, United States of America), Elsa Angelini, Andrew Laine, Yanping Sun, Grant Hiura, Stephen Dashnaw, Martin Prince, Eric Hoffman, Bharath Ambale-Venkatesh, Joao Lima, Jim Wild, Emlyn Hughes, R. Graham Barr, Wei Shen

#### Regional hyperpolarised 129-xenon diffusion-weighted MRI in patients with IPF
James Eaden (Sheffield (South Yorkshire), United Kingdom), Ho-Fung Chan, Nicholas Weatherley, Stephen Bianchi, Jim Wild

#### Robust automatic segmentation of airway using multi-resolution deep learning
Stijn Bonte (Kontich, Belgium), Maarten Lanclus, Joana Costa, Cedric Van Holsbeke

### 4332 Discussion

#### Channel 5 Session 357 09:30 - 10:30

### Oral presentation: Advances in cystic fibrosis: from microbiome to MRI

Abstracts presented in this session are also available as E-posters from 24 August 2020

#### Disease(s)
- Airway diseases

#### Method(s)
- Pulmonary function testing
- Imaging
- Physiology
- Cell and molecular biology
- General respiratory patient care
- Epidemiology
- Public health

#### Chairs:
- Catherine Greene (Dublin 9, Ireland), Chair to be confirmed

### 4336 Introduction

#### Ivacaftor/lumacaftor changes the lung microbiome and metabolome in cystic fibrosis patients

#### Non-contrast-enhanced assessment of lung perfusion in CF patients during respiratory tract exacerbation using Fourier decomposition magnetic resonance imaging (FDMRI)
Andrea Mazzaro (Mestre-Venezia, Italy), Mirco Ros, Silvia Bertolo, Pierluigi Ciet, Francesco Serafini, Giovanni Morana

#### Correlation of Hyperpolarised Xenon-129 Magnetic Resonance Imaging (129Xe-MRI) of the Lung with Multi-Breath Washout (MBW) in Children with Severe Asthma
Shahideh Safavi (Nottingham (Nottinghamshire), United Kingdom), Brandon Zanette, Samal Munidasa, Elaine Stirrat, Daniel Li, Theo Moraes, Padmaja Subbarao, Giles Santyr

#### Interpretation of multiple breath washout (MBW) measurements of lung function using mathematical modelling and hyperpolarised 3He gas MRI
Carl Whitfield (Manchester, United Kingdom), Laurie Smith, Oliver Jensen, Noreen West, Martin Wildman, Guilhem Collier, Jim Wild, Alex Horsley

#### Multiple-breath washout and pulmonary function tests versus high-resolution computed tomography scores in adults with cystic fibrosis.
Alexander Cherniak (Moscow, Russian Federation), Zhanna Naumenko, Stanislav Krasovskiy, Kirill Mikhailichenko, Galina Nekhodova

#### Using integrated omics to assess the effects of rhinovirus infection in children with Cystic Fibrosis (CF)
Pseudomonas aeruginosa influences the inflammatory response of primary bronchial epithelial cells to rhinovirus infection
Adrian Endres (Frankfurt am Main, Germany), Ralf Schubert, Peter Braubach, Danny Jonigk, Michael Hogardt, Helena Boland, Gernot Rohde, Carla Bellinghausen

A First Look at the Italian Registry on Pulmonary Non-Tuberculous Mycobacteria (NTM) -IRENE
Stefano Aliberti (Milano (MI), Italy), Maura Spotti, Giovanni Sotgiu, Maurizio Ferrarese, Paola Francesca Castellotti, Andrea Gramigna, Marina Tadolini, Jessica Mencarini, Gina Gualano, Stefania Cerri, Giuliano Montemurro, Giulia Gardini, Andrea Calcagno, Federico Dente, Michele Trezzi, Paola Faverio, Mario Malerba, Giulia Cucchetto, Enrico Tortoli, Melhi Mirsaied, Antonella Previdi, Andrea Gori, Luigi Ruffo Codecasa, Francesco Blasi, On Behalf Of The Irene Network

A pilot study of a novel ELISA test using synthetic mycolic acid antigens for serodiagnosis of nontuberculous mycobacterial infections.
Julia Bashford (Brisbane (QLD), Australia), R. A. Floto, C. S. Haworth, J. Ryan, J. R. Al Dulayymi, A. Cervi, M. Baird

Ultrasound diaphragm activity in patients with cystic fibrosis: relationship to disease severity and peripheral muscle strength
Anne-Catherine Maynard-Paquette (Montreal (QC), Canada), François Tremblay, Bruno-Pierre Dubé

Late Breaking Abstract - Long-term noninvasive ventilation in obesity hypoventilation syndrome without severe obstructive sleep apnoea
Mª Ángeles Sanchez Quiroga (Plasencia, Spain), Mª Ángeles Sanchez Quiroga, Juan Fernando Masa Jiménez, Ivan Benitez, Javier Gómez De Terreros, Jaime Corral, Auxiliadora Romero, Candela Caballero Eraso, Maris Luz Alonso Alvarez, Estrella Ordax, Teresa Gomez Garcia, Soledad Lopez Martin, Jose Maria Marin, Sergi Marti, Trinidad Diaz Cambriles, Eusebi Chiner, Carlos Egea, Javier Barca, Francisco Javier Vazquez Polo, Miguel Angel Negrín, Maria Martel Escobar, Ferran Barbe, Babak Mohklesi

Nasal High-flow Versus Non-invasive Ventilation In Patients With Chronic Hypercapnic COPD
Jens Bräunlich (Leipzig, Germany), Jens Bräunlich, Dominic Dellweg, Andreas Bastian, Torsten Blum, Stephan Budweiser, Winfried Randerath, Dora Triché, Martin Bachmann, Christian Kähler, Abdel Hakim Bayarassou, Irmhild Mäder, Jens Geiseler, David Petroff, Hubert Wirtz

Late Breaking Abstract - WEANing From NonInvasive Ventilation - ‘WEANIV’ Study
Aylin Özsancak Uğurlu (Istanbul, Turkey), Aylin Özsancak Uğurlu, Zuhal Karakurt, Raffaëla Scala, Ezgi Ozylmaz, Begum Ergan, Stefano Nava, Fabiano Dimarco, Eylem Tuncay, Giuseppina Carleglio, Orhan Othman Hasan, Sara Betti, Lisa Giovanni

Late Breaking Abstract - Temporary Transvenous Diaphragm Neurostimulation in difficult-to-wean mechanically ventilated patients - Results of the RESCUE 2 randomized controlled trial.
Martin Dres (Paris, France), Martin Dres, Marcelo Gama De Abreu, Thomas Similowski

The effect of tele coaching after pulmonary rehabilitation on patients’ experience of physical activity in patients with COPD
Astrid Blondeel (Leuven, Belgium), Astrid Blondeel, Heleen Demeyer, Matthias Loeckx, Fernanda Rodrigues, Sofie Breuls, Wim Janssens, Thierry Troosters

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Late Breaking Abstract - WEANing From NonInvasive Ventilation - ‘WEANIV’ Study
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Martin Dres (Paris, France), Martin Dres, Marcelo Gama De Abreu, Thomas Similowski

Wrap-up by discussant and discussion
Manuel Lujan Torne (Sabadell (Barcelona, Spain))

Late Breaking Abstract - Telerehabilitation compared to centre-based pulmonary rehabilitation: a randomised controlled equivalence trial.
Narelle Cox (Melbourne (VIC), Australia), Narelle Cox, Christine Mc Donald, Ajay Mahal, Jennifer Alison, Richard Wootton, Paolo Zanaboni, Catherine Hill, Janet Bondarenko, Heath Macdonald, Kathryn Barker, Hayley Crute, Christie Mellerick, Bruna Wadock, Helen Boursinos, Aroub Lahham, Amanda Nichols, Pawel Czyzyprn, Leah Jennings, Monique Corbett, Emma Handley, Angela Burge, Anne Holland

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Wrap-up by discussant and discussion
Frits M.E. Franssen (Horn, Netherlands)

Discussion
Studio Madrid Session 358 09:30 - 10:30
Clinical trials session: ALERT: Ventilation and rehabilitation
Chairs: Andrew Bush (London, United Kingdom), Charlotte Suppli Ulrik (Virum, Denmark)
Discussants: Frits M.E. Franssen (Horn, Netherlands), Manuel Lujan Torne (Sabadell (Barcelona, Spain))

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Late Breaking Abstract - Telerehabilitation compared to centre-based pulmonary rehabilitation: a randomised controlled equivalence trial.
Narelle Cox (Melbourne (VIC), Australia), Narelle Cox, Christine Mc Donald, Ajay Mahal, Jennifer Alison, Richard Wootton, Paolo Zanaboni, Catherine Hill, Janet Bondarenko, Heath Macdonald, Kathryn Barker, Hayley Crute, Christie Mellerick, Bruna Wadock, Helen Boursinos, Aroub Lahham, Amanda Nichols, Pawel Czyzyprn, Leah Jennings, Monique Corbett, Emma Handley, Angela Burge, Anne Holland

The effect of tele coaching after pulmonary rehabilitation on patients’ experience of physical activity in patients with COPD
Astrid Blondeel (Leuven, Belgium), Astrid Blondeel, Heleen Demeyer, Matthias Loeckx, Fernanda Rodrigues, Sofie Breuls, Wim Janssens, Thierry Troosters

Wrap-up by discussant and discussion
Frits M.E. Franssen (Horn, Netherlands)
### Studio Milan  
**Session 359**  
**09:30 - 10:30**

**Hot topics: Exciting new developments in lung cancer screening, diagnostics and treatment**

**Aims:** To highlight new perspectives in lung cancer by a bench-to-bedside approach transferring latest scientific knowledge of four relevant topics into upcoming clinical management strategies.

**Disease(s):** Thoracic oncology

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs:** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

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<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>The lung cancer microenvironment and the lung microbiota: cross or cease fire?</td>
<td>Hortense Slevogt (Berlin, Germany)</td>
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<td>09:45</td>
<td>Immunotherapy in SCLC: small step or leap?</td>
<td>Sebahat Ocak (Yvoir, Belgium)</td>
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<td>09:55</td>
<td>Pathologist and pulmonologist at crossroads</td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
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<tr>
<td>10:05</td>
<td>Non-invasive treatment of dyspnoea and pain in thoracic malignancies re-defined</td>
<td>Dragana M. Jovanović (Beograd, Republic of Serbia)</td>
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<tr>
<td>10:15</td>
<td>Discussion and Q&amp;A</td>
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### Studio Paris  
**Session 360**  
**09:30 - 10:30**

**Journal session: Reducing the burden of asthma**

**Realising the potential for improvements in asthma management and prevention (a joint ERS/Lancet session)**

**Aims:** To consider approaches to reducing the burden of asthma, including the identification of risk and protective factors that could be targeted for the primary prevention of asthma, progress in asthma genetics and the identification of potential drug targets, and advances in the management of severe asthma in children.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Paediatrician, Scientist (basic, translational)

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Chair to be confirmed

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<tr>
<td>09:30</td>
<td>Introduction</td>
<td>Rebecca Craven (London, United Kingdom)</td>
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<td>09:35</td>
<td>Primary prevention of asthma: from risk and protective factors to targeted strategies for prevention</td>
<td>Erika von Mutius (München, Germany)</td>
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<td>09:48</td>
<td>The genetics of asthma and the promise of genomics-guided drug discovery</td>
<td>Gerard H. Koppelman (Groningen, Netherlands)</td>
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<td>10:02</td>
<td>Management of severe asthma in children</td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands)</td>
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<td>10:15</td>
<td>Discussion and Q&amp;A</td>
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<td>10:25</td>
<td>Conclusion</td>
<td>Rebecca Craven (London, United Kingdom)</td>
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### Studio Vienna  
**Session 361**  
**09:30 - 10:40**

**Live from the clinic: Bronchoscopy and endosonography: Lung cancer**

**Aims:** Endosonography (EBUS and EUS) has become an minimally invasive technique for the diagnosis and staging of lung cancer. Various bronchoscopic navigation techniques, tumor detection and sampling procedures are under clinical evaluation. Techniques to be demonstrated are: Endobronchial ultrasound (EBUS) and trans-esophageal endobronchial ultrasound (EUS-B), navigation bronchoscopy and cryoprobe bronchoscopy, radial probe endobronchial ultrasound (EBUS) and needle-based confocal laser endomicroscopy (nCLE), tumour ablation, and stent placement.

**Tag(s):** Clinical
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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Endobronchial ultrasound and trans-esophageal endobronchial ultrasound</td>
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<td>09:50</td>
<td>Navigation bronchoscopy and cryoprobe bronchoscopy</td>
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<td>10:05</td>
<td>Tumour ablation</td>
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<td>10:15</td>
<td>Stent</td>
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<td>10:25</td>
<td>Radial probe endobronchial ultrasound and needle-based confocal laser</td>
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<td>10:35</td>
<td>Discussion and Q&amp;A</td>
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### Channel 1: Session 362 (10:40 - 11:40)

**Primary care session: Part I: From symptoms to diagnosis in primary care**

**Aims:** To present methods of choosing the most effective diagnostic work up and management for patients with common respiratory symptoms.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist

**Chairs:** Hanna Sandelowsky (Vendelso, Sweden), Hilary Pinnock (Edinburgh, Edinburgh, United Kingdom)

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<tr>
<td>10:40</td>
<td>Introduction</td>
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<tr>
<td>10:45</td>
<td>Breathlessness, could it be asthma?</td>
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<tr>
<td>10:58</td>
<td>Breathlessness, could it be COPD?</td>
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<td>11:11</td>
<td>&quot;No Smoking Week&quot; and other activities that clinicians can do or support</td>
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<td>11:24</td>
<td>Discussion and Q&amp;A</td>
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### Channel 2: Session 363 (10:40 - 11:40)

**Oral presentation: From tobacco and vaping health effects to tobacco cessation**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** Epidemiology, Public health, Palliative care, Physiology, Cell and molecular biology

**Chairs:** Sofia Belo Ravara (Covilhã, Portugal), Elif Dagli (Istanbul, Turkey)

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<tr>
<td>4381</td>
<td>Introduction</td>
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<tr>
<td>4382</td>
<td>Late Breaking Abstract - Differences in flavorant levels and synthetic coolant use between USA, EU and Canadian Juul products</td>
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ERS 2020 International Congress

DETAILED PROGRAMME

TUESDAY 08 SEPTEMBER, 2020
TREATMENT COMPLICATION RATES IN CONTINUED SMOKERS VS QUITTERS AFTER A DIAGNOSIS OF LUNG CANCER: A COHORT STUDY
Rachel Gemine (Llanelli (Dyfed), United Kingdom), Kirsty Lanyon, Gareth Davies, Keir Lewis

FLAVOR-SOLVENT REACTION PRODUCTS IN ELECTRONIC CIGARETTE LIQUIDS ACTIVATE RESPIRATORY IRRITANT RECEPTORS AND ELICIT CYTOTOXIC METABOLIC RESPONSES IN AIRWAY EPITHELIAL CELL
Sven-Eric Jordt (Durham, NC, United States of America), Ana I. Caceres, Hanno Erythropel, Julie B. Zimmerman, Tamara Dewinter, Sairam V. Jabba

OUTPATIENT SMOKING CESSION: PRELIMINARY FINDINGS OF A NON-INFERIORITY RCT COMPARING BLENDDED WITH FACE-TO-FACE DELIVERY MODE
Lutz Siemer (Enschede, Netherlands), Marcel E. Pieterse, Somaya Ben Allouch, Marloes G. Postel, Robbert Sanderman, Marjolein Brurse-Keizer

ASTHMA DO NOT COUNTERACT SMOKING INITIATION
Linnea Hedman (Luleå, Sweden), Helena Backman, Martin Andersson, Caroline Stridsman, Eva Rönmark

A CUTE HEALTH EFFECTS AFTER PASSIVE E-VAPE AMONG PATIENTS WITH COPD - AN RCT EXPOSURE STUDY
Karin Rosenkilde Laursen (Aarhus, Denmark), Jakob H. Bonløkke, Merete Bilde, Marianne Glasius, Elisabeth Bendstrup, Søren K. Kjærgaard, Anna-Carin Olin, Torben Sigsgaard

EVOLUTION IN DISEASE SEVERITY DURING THE E-CIGARETTE OR VAPING-ASSOCIATED LUNG INJURY (EVALI) OUTBREAK
Michael Lanspa (Salt Lake City, United States of America), Dixie Harris, Braden Anderson, Sean Callahan, Susan Rea, Dave Collingridge, David Gudtry, Colin Grissom, Denitza Blagev

ASSOCIATION OF LOW-INTENSITY SMOKING WITH RESPIRATORY AND LUNG CANCER MORTALITY

INTRODUCTION

WHOLE EXOME SEQUENCING IN FAMILIAL SARCOIDOSIS TARGETS PATHWAYS WHICH MAY HELP EARLY DIAGNOSIS OF SEVERE FORMS OF SARCOIDOSIS.
Alain Calender (Lyon, France), Dominique Valeyre, Thomas Weichhart, Valérie Besnard, Hilario Nunes, Yves Pacheco, §

ASSOCIATION OF LOW-INTENSITY SMOKING WITH RESPIRATORY AND LUNG CANCER MORTALITY

EXHALED BREATH ANALYSIS USING ENOSE TECHNOLOGY IN PATIENTS WITH SARCOIDOSIS
Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland- Van Der Zee, Marlies Wijsenbeek

THE AUTOIMMUNE CRITERIA OF SARCOIDOSIS
Anna Starshinova (St. Petersburg, Russian Federation), Ulia Zinchenko, Anna Malkova, Natalia Basantsova, Igor Kudryavtsev, Michail Filatov, Vladimir Burdakov, Piotr Yablonskiy

MORTALITY IN A WELL-DEFINED GROUP OF PREDOMINANTLY CAUCASIAN PULMONARY SARCOIDOSIS PATIENTS
Marloes Huitema (Utrecht, Netherlands), Harold Mathijssen, Annelies L M Bakker, Repke J Snijder, Johannes Jurgen Mager, Jan C. Grutters, Martijn Cornelis Post
Type 2 diabetes mellitus risk associated with sarcoidosis: A Swedish population-based cohort study
Elizabeth V. Arkema (Stockholm, Sweden), Joshua P. Entrop, Susanna Kullberg, Johan Grunwald, Kerstin Brismar

Channel 4  Session 365  10:40 - 11:40
Oral presentation: Exploring respiratory function
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** Sam Bayat (Grenobe, France), Georgios Kaltsakas (Athens, Greece)

### Introduction

- **4400** Oxygen uptake measured at the ventilatory threshold is a mortality marker in COPD
  Thomas Georges (Nantes, France), Salome Courat, Marc Le Vaillant, Hakima Ouksel, Arnaud Chambellan

- **4402** Exertional dyspnea in COPD: the dominant role of increased diaphragmatic activation
  Matthew James (Kingston (ON), Canada), Kathryn Milne, Megha Ibrahim Masthan, J Alberto Neder, Denis O'Donnell

- **4403** Determinants of exercise capacity in chronic obstructive pulmonary disease
  Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Anja Pietzke-Calcagnile, Matthias Boentert, Jens Spiethöfer, Peter Young, Winfried Randerath

- **4404** Impact of bronchodilator therapy on diaphragmatic function in sleep in COPD
  Nicole J. Domnik (Kingston (ON), Canada), Robin Scheeren, Sarah Taylor, Helen Driver, Sophie Crinion, J Alberto Neder, Denis O'Donnell

- **4405** Beyond the lungs in fibrotic interstitial lung disease: does supplemental O2 improve skeletal muscle oxygenation and fatigue?
  Mathieu Marillier (Kingston, Canada), Anne-Catherine Bernard, Onofre Moran-Mendoza, Denis E O'Donnell, Samuel Verges, J Alberto Neder

### Discussion

### Channel 5  Session 366  10:40 - 11:40
Oral presentation: Nasal high flow and non-invasive ventilation in acute and chronic care
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** Peter J. Wijkstra (Groningen, Netherlands), Maxime Patout (Mont-Saint Aignan, France)

### Introduction

- **4408** Late Breaking Abstract - CPAP is effective in treating COVID-19 patients with Type 1 respiratory failure.
  Alguili Elsheikh (Basildon, United Kingdom), Vijayalakshmi Karunanithi, Aarani Mahalingam, Muhammad Shafiq, Niranjan Setty, Johnson Samuel

- **4411** Pilot study to assess physician compliance in non-invasive ventilation titration based on venous blood gasses versus arterial blood gasses in acute respiratory failure patients
  Jien Cheng (Walkerville, Australia), Vinod Aiyappan, Tanja Effing, Stephen Quinn, Dimitar Sajkov

- **4413** Comparison of High-Flow and Conventional Nasal Cannula Oxygen in Patients Undergoing Endobronchial Ultrasoundography
  Elif Yilmazel Uçar (Erzurum, Turkey), Omer Araz, Bugra Kerget, Metin Akgun, Leyla Saglam

- **4414** Effects of High Flow Nasal Cannula on the Coordination between Swallowing and Breathing in Postextubation Patients
  Pornpan Rattanajiaroen (Bangkok, Thailand), Napplika Kongpolprom
Full-Face versus nasal mask for high intensity noninvasive ventilation in COPD patients with chronic hypercapnic respiratory insufficiency- a randomized crossover trial -
Daniel Majorski (Cologne, Germany), Rodion Majorski, Jens Callegari, Sarah Schwarz, Friederike Magnet, Jan Hendrik Storre, Claudia Schmoo, Wolfram Windisch

Non-invasive ventilation can modulate the responses of vascular reactivity in COPD-HF patients to high-intensity exercise
Cássia Goulart (São Carlos, Brazil), Flavia Caruso, Adriana Araújo, Polliana Santos, Guilherme Arêas, Guilherme Casale, Renata Mendes, Andréa Da Silva, Audrey Borghi-Silva

Non-invasive ventilation outpatient set up in amyotrophic lateral sclerosis
Shauna Sheridan (London, United Kingdom), Angela Reddy, Patrick B Murphy, Eui-Sik Suh, Shelley Srivastava, Phil Marino, Joerg Steier, Nicholas Hart, Michelle Ramsay, Georgios Kaltsakas

Discussion

Studio Madrid Session 367 10:40 - 11:40
Symposium: Cystic fibrosis: from cradle to old age
Managing the challenges of a lifelong condition
Aims: To describe major clinical and translational challenges in caring for patients with cystic fibrosis care in the 21st century; and to describe the pathophysiology and clinical characteristics of cystic fibrosis.

Disease(s): Respiratory infections, Paediatric respiratory diseases
Tag(s): Clinical, Translational
Target audience: Paediatrician, Adult pulmonologist/Clinician, Nurse, Physiologist
Chairs: Charlotte Suppli Ulrik (Virum, Denmark), Andrew Bush (London, United Kingdom)

10:40 Introduction

10:45 Lung inflammation in cystic fibrosis: an overlooked therapeutic target?
Stephen M. Stick (Perth (WA), Australia)

10:54 Transition from adolescent to adult care
Trudy Havermans (LEUVEN, Belgium)

11:03 Gastrointestinal issues in cystic fibrosis and their relevance to the lungs
Barry Plant (Cork, Ireland)

11:12 Comorbidities of advanced diseases in patients with cystic fibrosis
Josje Altenburg (Amsterdam (NH), Netherlands)

11:21 Changing demographics of cystic fibrosis and models of care
Stuart Elborn (Belfast (Belfast), United Kingdom)

11:30 Discussion and Q & A

Studio Milan Session 368 10:40 - 11:40
Hot topics: Pneumothorax: to drain or not to drain
Aims: To review and discuss the most recent insights in spontaneous pneumothorax management.

Disease(s): Airway diseases
Method(s): Endoscopy and interventional pulmonology General respiratory patient care Imaging
Tag(s): Clinical
Target audience: General practitioner, Patient, Radiologist, Medical Student, Physician in Pulmonary Training, Adult pulmonologist/Clinician
Chairs: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

10:40 Introduction

10:45 No need to treat spontanuous pneumothorax
Graham Simpson (Stratford, Australia)

10:55 Spontanuous pneumothorax need to be treated
Nick Maskell (Bristol (Avon), United Kingdom)
**Aspiration of pneumothorax**
Andreas Thelle (Bergen, Norway)

**Role of surgery in pneumothorax treatment**
Stefano Elia (Roma (RM), Italy)

**Discussion and Q & A**

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**Studio Paris**

**Session 369**

**Symposium: Tuberculosis: learning from the WHO global health emergencies**

**Aims:** To explain why tuberculosis has remained a global health emergency for 27 years; to identify differences and similarities in the approach to tuberculosis and other global health emergencies

**Disease(s):** Respiratory infections

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

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

**Target audience:** Clinical researcher, Nurse, Paediatrician, Patient, Scientist (basic, translational), Adult pulmonologist/Clinician, Physician in Pulmonary Training

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Chair to be confirmed

**Introduction**

**Overview of WHO global emergencies**
Raquel Duarte (Porto, Portugal)

**Modelling: hot spots and targeted contacts**
Rein Houben (London, United Kingdom)

**Diagnostic tests: what are the questions and what do we know so far?**
Morten Ruhwald (Copenhagen, Denmark)

**Establishing new treatments: the role of RCTs**
Lorenzo Guglielmetti (Paris, France)

**Discussion and Q & A**

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**Studio Vienna**

**Session 370**

**Live from the clinic: Bronchoscopic treatments for COPD and Emphysema**

**Aims:** Innovative endoscopic techniques provide novel treatment options for patients emphysema and chronic bronchitis. Techniques that will be demonstrated are: endobronchial valve and coil placement, targeted lung denervation and rheoplasty

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Physician in Pulmonary Training, General practitioner

**Chairs:** Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

**Introduction**

**Valve: emphysema**
Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)

**Coil: emphysema**
Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)

**Rheoplasty: bronchitis**
Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)

**Targeted lung denervation: COPD**
Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)

**Discussion and Q & A**
Live from the clinic: Bronchoscopy and ultrasound: Interstitial and pleural diseases

Aims: Endoscopic procedures are important for diagnosing sarcoidosis and various other (fibrotic) interstitial lung diseases. Techniques to be demonstrated are: bronchoscopy with confocal laser endomicroscopy and transbronchial cryobiopsies, EBUS-TBNA and or EUS (B) - FNA. Pleural diseases are frequent for both malignant and infectious/inflammatory diseases. Thoracoscopy is the standard technique for the diagnosis of pleural diseases. Techniques to be demonstrated: rigid thoracoscopy. Transthoracic ultrasound is a helpful tool for investigating clinical problems such as suspected pleural fluid, white hemi thorax, atelectasis, empyema, and diaphragm function analysis. This session will demonstrate some of the most common investigations carried out using transthoracic ultrasound. Systematic assessment of the thorax using ultrasound and various abnormalities (e.g. effusion, atelectasis, empyema) and (post) COVID abnormalities will be demonstrated.

Method(s): Endoscopy and interventional pulmonology

Target audience: Adult pulmonologist/Clinician, General practitioner

Chairs: Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

11:40 Introduction

11:45 Endobronchial ultrasound and trans-esophageal endobronchial ultrasound: sarcoidosis
Laurence M.M.J. Crombag (Amsterdam, Netherlands), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands)

12:00 Cryobiopsy, confocal laser endomicroscopy and optical coherence tomography in lung fibrosis
Peter I. Bonta (Amsterdam, Netherlands), Lizzy Wijmans (Amsterdam, Netherlands), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands)

12:10 Thoracic ultrasound: pleural effusion and empyema
Najib M. Rahman (Oxford, United Kingdom)

12:20 Thoracic ultrasound: COVID-19
Christian B. Laursen (Odense, Denmark)

12:30 Rigid thoracoscopy
Johannes M.A. Daniels (Amsterdam, Netherlands), Peter I. Bonta (Amsterdam, Netherlands)

12:45 Discussion and Q&A

Channel 1

Session 372 11:50 - 12:50

Primary care session: Part II: From symptoms to diagnosis in primary care

Aims: To present how to choose the most effective diagnostic work up and management for common respiratory symptoms.

Disease(s): Airway diseases, Interstitial lung diseases, Paediatric respiratory diseases

Tag(s): Clinical

Chairs: Janwillem W. H. Kocks (Groningen, Netherlands), Tiago Maricoto (Aveiro, Portugal)

11:50 Introduction

11:55 Respiratory care in different situations: an overview of the epidemiology of respiratory diseases and their (co) morbidity
António Jaime Correia De Sousa (Porto, Portugal)

12:05 Pharmacotherapy in patients with multi-morbid COPD
Ioanna Tsiligianni (Heraklion (Crete), Greece)

12:15 The blood (vessels) and the lung: what the general practitioner needs to know about circulation (a bit of heart) and the lungs
Anton Vonk Noordegraaf (Amsterdam, Netherlands)

12:25 Methods of managing airway diseases in pregnancy
Vibeke Backer (Copenhagen, Denmark)

12:35 Discussion and Q&A

Channel 2

Session 373 11:50 - 12:50

Oral presentation: Genetics and genomics of pulmonary arterial hypertension

Abstracts presented in this session are also available as E-posters from 24 August 2020
Introduction

Multi-omic profiling in pulmonary arterial hypertension
Pablo Otero-Núñez (London, United Kingdom), Christopher Rhodes, John Wharton, Emilia Swietlik, Sokratis Kariotis, Lars Harbaum, Mark Dunning, Jason Elinoff, Niamh Errington, Roger Thomson, James Iremonger, Gerry Coghlan, Paul Corris, Luke Howard, David Kiely, Colin Church, Joanna Pepke-Zaba, Mark Toshner, Stephen Wort, Ankit Desai, Marc Humbert, William Nichols, Laura Southgate, David-Alexandre Trégouët, Richard Trembath, Inga Prokopenko, Stefan Gräf, Nicholas Morrell, Dennis Wang, Allan Lawrie, Martin Wilkins

New rare variant associations with distinct phenotypes in patients with pulmonary arterial hypertension revealed with Bayesian inference.
Emilia Swietlik (Cambridge, United Kingdom), Katie A Lutz, Daniel Greene, Michael W Pauciulo, Tobias Tilly, Divya Pandya, Na Zhu, Marcella Cogliano, Carrie L Welch, Anna W Coleman, N.I.H.R Bioresource Rare Diseases Consortium, Yufeng Shen, Andrew Swift, Wendy Chung, William C Nichols, Nick W Morrell, Stefan Graf

Screening of pulmonary arterial hypertension in BMPR2 mutation carriers
David Montani (Le Kremlin-Bicêtre, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, Pierantionio Laveneziana, Edmund Lau, Amir Bouchachi, Sébastien Hascoet, Sven Gunther, Laurent Godinas, Florence Parent, Christophe Guiganbert, Gilles Garcia, Denis Chemla, Philippe Hervé, Mélanie Eyries, Florent Soubrier, Olivier Sitbon, Gérald Simonneau, Marc Humbert

Genetic findings in patients with different forms of pulmonary hypertension
Christina Eichstaedt (Heidelberg, Germany), Zoe Saßmannshausen, Henning Gall, Ardeschir Ghofrani, Hans-Jürgen Seyfarth, Marianne Lerche, Michael Halank, Panagiota Xanthouli, Satenik Harutyunova, Benjamin Egenlauf, Katrin Milger-Kneidinger, Stefan Rosenkrankz, Ralf Ewert, Mareike Lankeit, Tobias Lange, Katrin Hinderhofer, Ekkehard Grünig

Haploid genetic screening identifies a novel regulator of BMPR2
Benjamin Dunmore (Cambridge, United Kingdom), Stephen Burr, Paul Upton, James Nathan, Nicholas Morrell

Protein truncating mutations in ATP13A3 promote pulmonary arterial hypertension
Ekaterina Legchenko (Cambridge, United Kingdom), Bin Liu, James West, Peter Vangheluwe, Paul Upton, Nicholas Morrell

Phenotype and outcome of PAH patients carrying a TBX4 mutation
Pierre Thoré (Nancy, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, Maria Rosa Ghigna, Mélanie Eyries, Marilyne Levy, Caroline Ovaert, Amélie Servettaz, Anne Guillaumot, Claire Dauphin, Emmanuel Boiffard, Vincent Cottin, Frédéric Perros, Gérald Simonneau, Sitbon Olivier, Florent Soubrier, Damien Bonnet, Martine Remy Jardin, Ari Chaouat, Marc Humbert, David Montani

Discussion

Channel 3

Session 374
11:50 - 12:50

Oral presentation: Cellular involvement in lung injury
Abstracts presented in this session are also available as E-posters from 24 August 2020

Late Breaking Abstract - Aminopeptidase N/CD13 distinguishes two populations of colony-forming mesenchymal stromal cells in human lung tissue
Måns Kadefors (Malmö, Sweden), Sara Rolandsson Enes, Maria Weitoft, Stefan Scheding, Gunilla Westergren-Thorsson

Late Breaking Abstract - Myeloid-derived microvesicles as acute mediators of sepsis-induced lung vascular inflammation
Dianere Maria Tsriridou (London, United Kingdom), Kieran Patrick O'Dea, Ying Ying Tan, Masao Takata

Blocking Focal adhesion kinase (FAK) protects against damage in a novel model of lymphocyte dominant lung injury
Danica Brister (Calgary (AB), Canada), Gurpreet Aulakah, Hong Zhang, Kamala Patel
A humanized animal model of pulmonary fibrosis based on cellular senescence
Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Federico Pietrocola, Neus Prats, Kathleen Meyer, Jose Alberto Lopez-Dominguez, Maria Isabel Muñoz, Miguel Rovira, Daniel Martinez, Jose Ramirez, Alvar Agusti, Rosa Faner, Jacobo Sellares, Manuel Serrano

High-plex immunofluorescence single cell analysis of fibrotic murine lung on tissue microarrays
Francesca Ravanetti (Parma, Italy), Roberta Ciccimarra, Maddalena Bolognesi, Francesca Ruscitti, Luisa Ragionieri, Giorgio Cattoretti, Gino Villetti, Fabio Stellari

The role of resident lung mesenchymal stromal cells in normal and aberrant lung development
Ivana Mizikova (Ottawa, Canada), Chanéle Cyr-Depauw, Flore Lesage, Maria Hurskainen, Arul Vadivel, Shumei Zhong, Bernard Thébaud

Inflammatory microenvironment in both healthy controls and ARDS patients polarize clinically utilized MSCs towards a pro-inflammatory MSC phenotype
Sara Rolandsson Enes (Lund, Sweden), Thomas H. Hampton, David H. Mckenna, Claudia C. Dos Santos, Kathleen D. Liu, Bruce A. Stanton, Patricia R. M. Rocco, Michael A. Matthay, Daniel J. Weiss

High-dimensional mass cytometry analysis of immune cells in emphysematous lung tissue
Padmini P. S. J. Khedoe (Den Haag, Netherlands), Na Li, Li Jia, Nannan Guo, Pieter S. Hiemstra, Frits Koning, Jan Stolk

Discussion

Channel 4: Session 375 11:50 - 12:50
Challenging clinical cases: Paediatric respiratory diseases

Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s): Paediatric respiratory diseases

Tag(s): Clinical

Target audience: Paediatrician, General practitioner, Respiratory critical care physician, Clinical researcher, Thoracic oncologist, Nurse, Physiologist, Respiratory physiotherapist, Radiologist, Thoracic surgeon

Chairs: Angela Zacharasiewicz (Wien, Austria), Fabio Midulla (Roma (RM), Italy)

11:50 Introduction

11:55 Is it more than just asthma?
Marijke Proesmans (Leuven, Belgium)

12:01 Discussion and Q & A

12:06 Persistent non-tuberculous mycobacteria in cystic fibrosis
Manisha Ramphul (Leicester (Leicestershire), United Kingdom)

12:12 Discussion and Q & A

12:17 Sudden onset of a thoracic mass
Ine Van Dijck (Leuven, Belgium)

12:23 Discussion and Q & A

12:28 A deadly cough and the eosinophil
Louise Thomson (Glasgow (Glasgow), United Kingdom)

12:34 Discussion and Q & A

12:39 A case of necrotizing pneumonia with an unusual presentation
Nadir Demirel (Rochester, United States of America)

12:45 Discussion and Q & A

Channel 5: Session 376 11:50 - 12:50

Oral presentation: Malignant pleural effusion in 2020: understanding the biology and clinical implications

Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Thoracic oncology
Method(s): Imaging  General respiratory patient care  Cell and molecular biology  Palliative care  Surgery
Chairs: Nick Maskell (Bristol (Avon), United Kingdom), Kevin Blyth (Glasgow (Glasgow), United Kingdom)

4487 Introduction

4488 Late Breaking Abstract - Nivolumab as salvage Treatment of Malignant Pleural Mesothelioma: a Single-Centre Experience
Marnix Lebeer (Leuven, Belgium), Jo Raskin, Charlotte De Bondt, Annemiek Snoeckx, Reinier Wener, Karen Zwaenepoel, Patrick Pauwels, Annelies Janssens, Jan Van Meerbeeck

4489 Late Breaking Abstract - Comparison of VATS debulking surgery and HITHOC vs VATS talc pleurodesis alone in malignant pleural mesothelioma: a pilot study
Marcello Migliore (Catania (CT), Italy), Marco Nardini , Alfreda Meli, Corrado Spatola, Ines Monte, Tommaso Nicolosi , Mariacristina Scuderi , Hector Soto Parra , Marco Aiello, Paolo Vigneri , Giovanna Fantacci

4490 BAP1 loss predicts longer survival for mesothelioma patients treated with pemetrexed-based chemotherapy.
Vasiliki Panou (Odense, Denmark), Amber Louw, Weronika Maria Szejniuk, Christos Meristoudis, Siaw Ming Chai, Louise Lynggård Andersen, Azadeh Birbaneh Asghari, MogensVyberg, Johnni Hansen, Jenette Creaney, Oluf Dimitri Roe

4491 Validation of LENT and PROMISE scores in malignant pleural effusion in an Asian population
Charles Wong (Hong Kong, Hong Kong), Wing Cheuk Wong, Kit Ying Loletta So, Yin Chun Loretta Yamm

4492 The association between pleural fluid exposure and survival in malignant pleural mesothelioma: a retrospective cohort study in 761 patients
Rachelle Asciak (Attard, Malta), Nikolaos Kanellakis, Andrew Kidd, Anna Bibby, Nick Maskell, Kevin Blyth, Rachel Mercer, Peter Fsdn, Stephen Montefort, Ioannis Psallidas, Najib Rahman

4493 Utility of pleural fluid for predictive marker testing in malignant pleural effusion
Jenny Ferguson (Glasgow, United Kingdom), Christopher Craig, Victoria Randles, Tracey Taylor, Louise Brown, Duncan Fullerton, Matthew Evison, Kevin G. Blyth, Selina Tsim

4494 Studying the biological properties of pleural fluid: pleural fluid alone is adequate for cancer cell proliferation in vitro
Rachelle Asciak (Attard, Malta), Nikolaos Kanellakis, Xuan Yao, Megat Abd Hamid, Tao Dong, Rachel Mercer, Maged Hassan, Eihab Bedawi, Melissa Dobson, Stephen Montefort, Peter Fsdn, Najib Rahman, Ioannis Psallidas

4495 Preliminary Results of the Meso-ORIGINS Feasibility Study
Katie Ferguson (Glasgow, United Kingdom), Jenny Ferguson, Selina Tsim, Rachael Mercer, Najib Rahman, Nick Maskell, Matthew Evison, Kevin Blyth

4496 A Study of physical activity and sedentary behaviour in patients with malignant pleural effusion undergoing therapeutic interventions: ASPIRE
Radhika Banka (Mumbai (Maharashtra), India), Olalla Castro-Anon, Maged Hassan, Eihab Bedawi, Rachel Mercer, Rachelle Asciak, Rob Hallifax, Vineeth George, John Wrightson, Najib Rahman

4497 Discussion
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:55</td>
<td>COPD and bronchitis: how much is caused by work, and which occupations cause the most harm?</td>
<td>David Fishwick (Sheffield (South Yorkshire), United Kingdom)</td>
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<td>12:04</td>
<td>Wheeze and crackles: how much does the workplace contribute?</td>
<td>Isabella Annesi Maesano (Paris, France)</td>
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<tr>
<td>12:13</td>
<td>Rare lung diseases and work: always bear occupation in mind when assessing these patients</td>
<td>Denis Vinnikov (Almaty, Kazakhstan)</td>
</tr>
<tr>
<td>12:22</td>
<td>How important is work as a risk for lung infections? A story of tuberculosis and pneumonia</td>
<td>Nithiseelan Rajen Naidoo (Durban, South Africa)</td>
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<tr>
<td>12:31</td>
<td>Work, workplace and fitness considerations in patients with occupational lung diseases</td>
<td>Christopher Barber (Sheffield (South Yorkshire), United Kingdom)</td>
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<td>12:40</td>
<td>Discussion and Q&amp;A</td>
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**Studio Milan**

Session 378 11:50 - 12:50

**Symposium: Lung transplantation in the era of new drugs**

**Aims:** To describe the effects of new therapeutic strategies in patients with pulmonary hypertension (PH), interstitial lung diseases (ILD) and cystic fibrosis (CF) on needs and indications for lung transplantation; and to evaluate outcomes of lung transplantation for these three indications.

**Disease(s):** Interstitial lung diseases, Paediatric respiratory diseases, Pulmonary vascular diseases

**Method(s):** Transplantation

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Patient, Respiratory critical care physician, Thoracic surgeon

**Chairs:** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

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<th>Time</th>
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<tbody>
<tr>
<td>11:50</td>
<td>Introduction</td>
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<tr>
<td>11:55</td>
<td>The need for lung transplantation in cystic fibrosis (CF) in the era of new treatment</td>
<td>Christian Benden (Berne, Switzerland)</td>
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<td>12:05</td>
<td>New antifibrotic drugs: will interstitial diseases patients still need lung transplantation?</td>
<td>Sara Tomassetti (Florence, Italy)</td>
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<tr>
<td>12:15</td>
<td>New issues in lung transplantation for pulmonary hypertension</td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<tr>
<td>12:25</td>
<td>Figures and outcomes of lung transplantation</td>
<td>Jens Gottlieb (Hannover, Germany)</td>
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<td>12:35</td>
<td>Discussion and Q&amp;A</td>
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**Studio Paris**

Session 379 11:50 - 12:50

**State of the art session: Airway diseases**

**Is there a problem with...? Treatment approaches in asthma and COPD**

**Aims:** To evaluate the use of short-acting beta-2 agonist (SABA) monotherapy and oral corticosteroid (OCS) use in asthma; to describe concerns related to the use of inhaled corticosteroids (ICS) in COPD; and to determine the optimal inhalation device for patients with COPD.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Respiratory physiotherapist, Nurse, Respiratory critical care physician

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Chair to be confirmed

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<tr>
<td>11:50</td>
<td>Introduction</td>
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<tr>
<td>11:55</td>
<td>Is there a problem with short-acting beta-2 agonist monotherapy in asthma?</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
</tbody>
</table>
### Channel 1
#### Session 388
**Language session: French programme 2020: Part I**
A joint ERS/SPLF session

**Aims:** This programme will be available in French and English.

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

**Tag(s):** Clinical

**Chairs:** Bernard Maitre (Créteil Cedex, France), Marc Humbert (Le Kremlin-Bicêtre, France)

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<th>Time</th>
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<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Des lésions précancéreuses au cancer invasif / From precancerous lesions to invasive carcinoma</td>
<td>Céline Mascaux (Marseille, France)</td>
</tr>
<tr>
<td>14:45</td>
<td>Troubles respiratoires du sommeil et cancer : données épidémiologiques / Respiratory disorders associated with sleep and cancer: epidemiological data</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
</tr>
<tr>
<td>14:55</td>
<td>Tt anti fibrotiques hors FPI: approche raisonnée / Anti-fibrotic treatments for conditions other than idiopathic pulmonary fibrosis</td>
<td>Vincent Cottin (Lyon, France)</td>
</tr>
<tr>
<td>15:05</td>
<td>Mucoviscidose: enfin des traitements ciblés / Cystic fibrosis: targeted therapies, at last!</td>
<td>Pierre-Régis Burgel (Sorbonne Paris Cité, France)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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### Channel 2
#### Session 389
**Oral presentation: Chronic cough: only symptom or disease?**
Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases, Interstitial lung diseases, Sleep and breathing disorders, Respiratory critical care

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

**Chairs:** Alyn Hugh Morice (Cottingham, United Kingdom), Chair to be confirmed

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<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>4560</td>
<td>Introduction</td>
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<tr>
<td>4561</td>
<td>Novel capsaicin challenge methodology: a new diagnostic endpoint?</td>
<td>Kimberley Holt (Manchester, United Kingdom), Rachel Dockry, Joanne Mitchell, John Belcher, Jaclyn Smith</td>
</tr>
<tr>
<td>4562</td>
<td>EPAC drives the anti-tussive effect of EP4 receptors on airway sensory nerves</td>
<td>Michael A. Wortley (London, United Kingdom), Sara J Bonvini, John J Adcock, Eric D Dubuis, Sarah A Maher, Raymond B Penn, Maria G Belvisi, Mark A Birrell</td>
</tr>
</tbody>
</table>
Can we predict response of refractory asthmatic cough to tiotropium? a prospective study
Kensuke Fukumitsu (Kobe, Japan), Yoshihiro Kanemitsu, Ryota Kurokawa, Norihisa Takeda, Hirono Nishiyama, Yoshitsugu Inoue, Junfer Yap, Satoshi Fukuda, Takehiro Uemura, Tomoko Tajiri, Hirotsugu Ohkubo, Ken Maeno, Yutaka Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi

The Efficacy of Bradanicline in Refractory Chronic Cough
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Yoshihiro Kanemitsu, Peter Butera, Brendan Canning, Peter Dicpinigaitis, Vivek Iyer, Michael Kitt

Gefapixant does not have meaningful drug interactions with a MATE1/2K inhibitor or an OATP1B substrate
Jesse Nussbaum (South San Francisco, United States of America), Jacqueline Mcrea, Azher Hussain, Raymond Evers, Bennett Ma, John Laubs, Carmen Rillera, Graigory Garrett, Yun Li, Marie-Helen Vallee, Deborah Panebianco, S. Aubrey Stoch, Marjan Iwamoto

Safety and efficacy of P2X3 antagonist BAY 1902607 in refractory chronic cough
Christian Friedrich (Berlin, Germany), Klaus Francke, Surinder S Birring, J W K Van Den Berg, Paul Marsden, Lorcan Megarvey, Alice Turner, Pascal Wielders, Isabella Gashaw, Stefan Klein, Alyn Morice

Azithromycin for the treatment of cough in idiopathic pulmonary fibrosis: A randomized controlled cross-over pilot trial.
Manuela Funke-Chambour (Bern, Switzerland), Christian Clarenbach, Katrin Hostettler, Martin Brutsche, Thomas K. Geiser, Sabina A. Guler

The effects of mechanical cough assist on rate of reintubation in patients with ineffective cough, a preliminary analysis
nicha ruamsap (bangkok, Thailand), Napplika Kongpolprom

Smartphone-based cough detection predicts asthma control - description of a novel, scalable digital biomarker
Frank Rassouli (Speicher, Switzerland), Peter Tinschert, Filip Barata, Claudia Steurer-Stey, Elgar Fleisch, Milo Puhan, Tobias Kowatsch, Martin H. Brutsche

Unsupervised learning algorithm for chronic cough detection in the electronic health records (EHR) data
Xiao Luo (Indianapolis, United States of America), Jonathan Schelfhout, Vasu Chandrasekaran, Vladimir Turchitzky, Paul Dexter, Zhi Han, Zuoyi Zhang, Wei Shao, Anna Roberts, Megan Metzger, Jarod Baker, Carmen La Rosa, Jessica Weaver, Vishal Bali, Kun Huang

Discussion

Channel 3  Session 390  14:30 - 15:30

Oral presentation: What is new in interstitial lung diseases of known origin?
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s) : Interstitial lung diseases
Method(s) : Epidemiology  General respiratory patient care  Imaging
Chairs : Bruno Crestani (Paris, France), Raphaël Borie (Paris, France)

Introduction

LS C - 2020 - The respiratory microbiome and metabolome in chronic hypersensitivity pneumonitis
Rachele Invernizzi (London, United Kingdom)

Methodxate and risk of Lung disease in Rheumatoid Arthritis: A nationwide population-based cohort study from Denmark
Saher B. Shaker (Hellerup, Denmark), Else Helene Ibfelt, Rikke Karl Jacobsen, Tine Iskov Kopp, René Lindholm Cordz, Anna Svarre Jakobsen, Niels Seersholm, Lene Seersholm, Lena Dreyer

Combined assessment of regional lung function and morphology using a contrast enhanced Dual-Energy CT protocol: Prospective value of functional imaging biomarkers in longitudinal analysis of patients with Interstitial Lung Disease
Sarah Scharm (Hannover, Germany), Sabine Detmmer, Jens Vogel-Clausen, Antje Prasse, Lars Knudsen, Frank Wacker, Jan Fuge, Hoen-Ol Shin

Does nintedanib have the same effect on FVC decline in patients with progressive fibrosing ILDs treated with DMARDS or glucocorticoids?
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Vincent Cottin, Stefania Cerri, Michael Kreuter, Maria Otoola, Diego Castillo Villegas, Craig Glazer, Heiko Müller, Carl Coeck, Manuel Quaresma, Toby M Maher
**Effects of nintedanib in patients with progressive fibrosing ILDs and differing baseline FVC: further analyses of the INBUILD trial**

**Effects of nintedanib on progression of ILD in patients with fibrosing ILDs and a progressive phenotype: further analyses of the INBUILD trial**

**Discussion**

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**Channel 4  Session 391  14:30 - 15:30**

*Challenging clinical cases: Pulmonary vascular diseases*

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Thoracic surgeon, Radiologist, Nurse

**Chairs:** Joanna Pepke-Zaba (Cambridge, United Kingdom), Olivier Sitbon (Le Kremlin-Bicêtre, France)

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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Pulmonary hypertension in a COPD Patient</td>
<td>Johad Khoury (Elaboun, Israel)</td>
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<td>14:41</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>14:46</td>
<td>Correct diagnosis and treatment options for a boy with significant dyspnea on exertion and markedly reduced exercise capacity</td>
<td>Polona Mlakar (Ljubljana, Slovenia)</td>
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<tr>
<td>14:52</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>14:57</td>
<td>The use of genetic testing in an atypical presentation of pulmonary veno-occlusive disease</td>
<td>Alexander MacLellan (Glasgow, United Kingdom)</td>
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<tr>
<td>15:03</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>15:08</td>
<td>Patient with ankylosing spondylitis and pulmonary hypertension</td>
<td>Anastasia Anthi (Athens, Greece)</td>
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<tr>
<td>15:14</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>15:19</td>
<td>A case of pulmonary choriocarcinoma presenting as a pulmonary thromboembolism</td>
<td>Rodrigo Zebadua (Ciudad de México, Mexico)</td>
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<td>15:25</td>
<td>Discussion and Q &amp; A</td>
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**Channel 5  Session 392  14:30 - 15:30**

*Oral presentation: Tuberculosis: part 1*

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Chairs:** Raquel Duarte (Porto, Portugal), Simon Tiberi (London, United Kingdom)

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<th>Time</th>
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<tr>
<td>14:59</td>
<td>Introduction</td>
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<tr>
<td>14:59</td>
<td>Chemotherapy outcome of pulmonary tuberculosis with mutations in the FN1 and TNXB genes</td>
<td>Kirill Samsonov (Omsk, Russian Federation), Anna Mordyk</td>
</tr>
</tbody>
</table>
Genomic analysis of new pre-XDR/XDR cluster of Mycobacterium tuberculosis Beijing genotype emerging in Russia
Igor Mokrousov (St. Petersburg, Russian Federation), Viacheslav Sinkov, Polina Khromova, Alena Gerasimova, Ekaterina Chernyeva, Natalia Solovieva

Determination of specific inflammation activity in the presence of the minimal tuberculous changes
Tatyana Tyulkova (Moscow, Russia, Russian Federation), Nelli Khabibullina, Sergey Skornyakov, Nikolay Chernavin, Pavel Chernavin

Higher adverse drug reactions but better completion rate of twelve-dose weekly rifapentine plus isoniazid comparing with nine-month daily isoniazid for latent tuberculosis infection among patients under maintenance dialysis
Shu-Yung Lin (Taipei, Taiwan), Ping-Huai Wang, Jia-Yih Feng, Chin-Chung Shu

Diabetic status and the risk of tuberculosis: a nationwide population-based study
Jung Eun Yoo (Seoul, Republic of Korea)

Discussion

Studio Madrid
Session 393
14:30 - 15:30
Hot topics: (Re-)discovering the small airway epithelium in COVID-19, fibrosing lung diseases and pulmonary regeneration

Aims: To summarize the clinical evidence for a pathogenic role of small airway cells in COVID-19 and fibrosing lung diseases; to explore the novel concept that small airways are central to the processes involved in regenerating and repairing a fibrosing lung. New developments regarding innovative in vitro models will allow us to exploit the regenerative and therapeutic potential of modulating small airway cells in lung fibrosis. AIMS: To highlight the contribution of small airway cells in COVID-19 and lung fibrosis from a clinical perspective; to understand the key role of small airway cells in lung regeneration and fibrosis; to demonstrate the regenerative potential of small airway cells and their likelihood as new therapeutic targets for pulmonary fibrosis; to explore novel models to study small airway cells and their regenerative capacities in pulmonary fibrosing diseases.

Disease(s): Airway diseases, Interstitial lung diseases
Tag(s): Basic science
Target audience: Clinical researcher, Medical Student, Pathologist, Scientist (basic, translational), Thoracic surgeon
Chairs: Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

14:30 Introduction
14:35 The role of bronchial epithelial cells in COVID-19 infection and pathogenesis
Roland Eils (Heidelberg, Germany)
14:45 Airway basal cell involvement in idiopathic pulmonary fibrosis
Antje Prasse (Hannover, Germany)
14:55 Uncovering the plasticity of lung epithelial cells by scRNA sequencing
Herbert Schiller (Munich, Germany)
15:05 Modeling the regenerative potential of airway epithelial cells
Pieter S. Hiemstra (Leiden, Netherlands)
15:15 Discussion and Q&A

Studio Milan
Session 394
14:30 - 15:30
Symposium: Fear and anxiety, psychological wellbeing and prevention of psychological distress in chronic lung diseases

Aims: To identify fear and anxiety as important risk factors for poor treatment outcomes in asthma and COPD as well as differentiate between the role of fear versus anxiety; to explain the role of different behavioral treatment approaches in the treatment of asthma and COPD and explore the role of anxiety and fear in adaptive vs. non-adaptive trigger avoidance behaviors; to identify novel treatment approaches that focus on countering experiential and behavioral avoidance; to identify challenges to the implementation of behavioral health in asthma and COPD care and indicate how innovative treatment approaches (ehealth, mhealth, training respiratory nurses in cognitive behavioral therapy techniques) can help mitigate these challenges.

Chairs: Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

14:30 Introduction
14:35 Patient perspective: video
Ron Flewett (, United Kingdom)
14:40 Disease-specific fears in COPD
Thomas Reijnders (Heverlee, Belgium) 4606

14:50 Nurse-led cognitive behavioral therapy in COPD
Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom) 4607

15:00 Expressing empathy in 15 minutes or less: challenges for clinicians
Debra Reynolds-Sandford (Adelaide (SA), Australia) 4608

15:10 Integrating early palliative care for patients with idiopathic pulmonary fibrosis and their caregivers
Kathleen Lindell (Pittsburgh, United States of America) 4609

15:20 Discussion and Q & A 4610

Studio Paris
Session 395 14:30 - 15:30
Clinical trials session: ALERT: Asthma in adults and children
Chairs: Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)
Discussants: Celeste Michala Porsbjerg (Copenhagen, Denmark), Mina Gaga (Athens, Greece)

4611 Introduction

4612 Late Breaking Abstract - Masitinib in severe asthma: Results from a randomized, phase 3 trial
Pascal Chanez (Marseille, France), Lavinia Davideescu, Pascal Chanez, Grigoriy Ursol, Oleksii Kozh, Vikranth Deshmukh, Lesia Kurky, Nortje Monja-Marie, Olga Godlevska, Gilles Devouassoux, Eduard Khodosh, Elliot Israel, Colin Mansfield, Olivier Hermene

4613 Late Breaking Abstract - Dupilumab long-term safety and efficacy in patients with asthma: LIBERTY ASTHMA TRAVERSE

4614 Late Breaking Abstract - LUSTER-1 and -2: randomised controlled trials of fevipiprant in severe asthma
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Christopher E. Brightling, Mina Gaga, Hiromasa Inoue, Jing Li, Jorge Maspero, Sally Wenzel, Somopriyo Maitra, David Lawrence, Florian Brockhaus, Thomas Lehmann, Caterina Brindicci, Barbara Knorr, Eugene Bleecker

4615 Wrap-up by discussant and discussion
Celeste Michala Porsbjerg (Copenhagen, Denmark)

4616 Late Breaking Abstract - Add-on mepolizumab for chronic rhinosinusitis with nasal polyps: SYNAPSE study
Claire Hopkins (London, United Kingdom), Claire Hopkins, Claus Bachert, Wytske Fokkens, Martin Desrosiers, Martin Wagenmann, Stella Lee, Ana Sousa, Steven Smith, Neil Martin, Bhaita Mayer, Robert Chan, Joseph Han

4617 Effect of controller prescribing according to rs1042713 genotype on asthma related quality of life in young people (PACT): a randomized controlled trial
Tom Ruffles (hove, United Kingdom), Thomas Ruffles, Christina Jones, Colin Palmer, Steve Turner, Jonathan Grigg, Roger Tavendale, Fiona Hogarth, Petra Rauchhaus, Kristina Pilvinyte, Helen Smith, Roberta Littleford, Brian Lipworth, Somnath Mukhopadhyay

4618 Late Breaking Abstract - Corticosteroid optimisation in severe asthma using composite biomarkers to adjust dose versus a symptom/risk-based algorithm
Liam Heaney (Belfast (Belfast), United Kingdom), Tim Hardman, Liam Heaney, John Busby, Catherine Hanratty, Ratko Djukanovic, Ashley Woodcock, Samantha Walker, Joseph Arron, David Choy, Peter Bradding, Christopher Brightling, Rehka Chaudhuri, Douglas Cowan, Rob Niven, Stephen Fowler, Tim Harrison, Peter Howarth, Jim Lordan, Adel Mansur, Andrew Menzies-Gow, Douglas Robinson

4619 Wrap-up by discussant and discussion
Mina Gaga (Athens, Greece)

Studio Vienna
Session 396 14:30 - 15:30
Lungs on fire: Respiratory critical care
**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

**Disease(s):** Respiratory critical care  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physiologist, Nurse, Paediatrician  
**Chairs:** Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Tobias Welte (Hannover, Germany)

**Discussants:** Antoni Torres (Barcelona, Spain)

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<th>Case 1 - Author: Hsiao-Ling Chia (Taiwan)</th>
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<th>Case 4 - Author: Anabell Rojas (Dominican Republic)</th>
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| 14:32 | Presentation of cases by the session facilitator  
Antoni Torres (Barcelona, Spain) | 4629 |
|-------|-----------------------------------------------|

**Channel 1**  
**Session 397**  
**15:40 - 16:40**

Respiratory medicine meets other disciplines: Precision endotyping of asthma: time for action  
A joint ERS/EAACI symposium

**Aims:** To describe the precision endotyping of asthma and its co-morbidities by linking pathobiological mechanisms with visible properties via specific biomarkers translated into pathway-specific diagnostic tests; to evaluate how artificial intelligence complements standard diagnostic procedures in patients with allergic diseases and asthma; to determine how this approach enhances accurate asthma classification and individualised targeted treatments; and to describe dynamic complex endotypes consisting of several subendotypes and its validation.

**Disease(s):** Airway diseases  
**Method(s):** Cell and molecular biology  
Epidemiology  
Physiology  
**Tag(s):** Translational  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Patient, Physiologist, Respiratory physiotherapist, Journalist, Scientist (basic, translational)

**Chairs:** Marek Jutel (Wroclaw, Poland), Antonio Spanevello (Milan, Italy)

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| 15:45 | Allergy testing and immunotherapy guidelines  
Ioana Agache (Brasov (Brasov), Romania) | 4631 |
|-------|------------------------------------------|

| 15:55 | High-dimensional multivariable analysis of asthma and its co-morbidities  
Bianca Schaub (Munich, Germany) | 4632 |
|-------|-----------------------------------------------|

| 16:05 | Upper airways in asthmatic patients  
Apostolos Bossios (Stockholm, Sweden) | 4633 |
|-------|---------------------------------------------|

| 16:15 | Linking clinical algorithms to precision medicine  
Matteo Bonini (Rome, Italy) | 4634 |
|-------|-----------------------------------------------|

| 16:25 | Does the endotype-driven approach translate into improved quality of life?  
Breda Flood (Gorey, Ireland) | 4635 |
|-------|---------------------------------------------|

ERS 2020 International Congress

**DETAILED PROGRAMME**  
**TUESDAY 08 SEPTEMBER, 2020**
**Session 398**

**Oral presentation: Diagnosis and management of asthma**

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Public health  Pulmonary function testing  Physiology  General respiratory patient care

**Chairs:** Joan B Soriano (Madrid, Spain), Padmaja Subbarao (Toronto (ON), Canada)

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**Late Breaking Abstract - Identifying preventable early risk factors for asthma in Indigenous children: a population cohort study in Western Australia.**

Bronwyn Brew Haasdyk (Sydney (NSW), Australia), Alison Gibberd, Guy Marks, Natalie Strobel, Wendy Allen, Louisa Jorm, Georgina Chambers, Sandra Eades, Bridgette Mcnamara

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**Late Breaking Abstract - Prevalence, characterization and costs of severe asthma in Spain (BRAVO 1)**

Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ana Sogo Sagardia, Elena Prina, Antoni Sicas Mainar, Aram Sicas Navarro, Clara Engroba Teijeiro

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**Late Breaking Abstract - Restrictive spirometry, asthma and respiratory symptoms; a cross-sectional analysis from two multicentre studies.**

Emil Ekbom (Uppsala, Sweden), Össur Emilsson, Andrei Malinovschi, Christer Janson

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**Age at asthma diagnosis and probability of remission in a population-based study**

Jasmin Honkamäki (Tampere, Finland), Päivi Piirilä, Hanna Hisinger-Mölkänen, Leena E Tuomisto, Heidi Andersen, Heini Huhtala, Anssi Sovijärvi, Helena Backman, Bo Lundbäck, Eva Rönmark, Lauri Lehtimäki, Paula Pallasaho, Pinja Ilmarinen, Hannu Kankaanranta

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**Risk factors for severe asthma among adults with asthma**

Helena Backman (Lulea, Sweden), Caroline Stridsman, Sven-Arne Jansson, Linnea Hedman, Hannu Kankaanranta, Anne Lindberg, Bo Lundback, Eva Rönmark

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**Asthma exacerbations during pregnancy increase risk of adverse perinatal outcomes**

Annelies Robijn (New Lambton Heights (NSW), Australia), Bronwyn Brew, Megan Jensen, Gustaf Rejnö, Cecilia Lundholm, Vanessa Murphy, Catarina Almqvist

---

**Maternal antibiotic use and infections during pregnancy and asthma in offspring**

Aino-Kaisa Rantalä (Oulu, Finland), German Tapia, Maria Christine Magnus, Øystein Karlstad, Ketil Størdal, Siri Håberg, Lars Christian Stene, Jouni J K Jaakkola, Wenche Nystad

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**SABA overreliance and physician visits in Canada**

Stephen G Noorduyn (Mississauga, Canada), Stephen Noorduyn, Mena Soliman, Karissa Johnston, Qian Christina, Paul Hernandez, Erika Penz

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**Real-world treatment patterns of benralizumab therapy for patients with severe asthma**

Stephen G Noorduyn (Mississauga, Canada), Alain Gendron, Niroshan Sriskandarajah, Karissa Johnston, Kathy M Osenenko, Stephen G Noorduyn

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**Spirometric phenotypes from early childhood to young adulthood - A CADSET (Chronic Airway Disease Early Stratification) study**


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**Discussion**
4650 Risk of tuberculosis in pediatric patients treated with biological agents
Ayse Tana Aslan (Ankara, Turkey), Pelin Asfuroglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Tugba Sismanlar Eyuboglu, Emine Nur Sunar Yayla, Sevcan Azimê Bakkaloglu Ezgu, Husnu Oguz Soylemezoglu, Necla Buyan

4651 Does declining nutritional status in ataxia telangiectasia cause decline in immunological function
Suha Ugur (Liverpool, United Kingdom), Hannah Bailey, Andrew Bush, Lucy Cliffe, Elizabeth Medermott, Andrew Payle, Mohnish Suri, Jayesh Bhatt

4652 Impact of nutritional supplementation on prolonged symptoms and the respiratory microbiome in children with acute respiratory infection
Stefan Unger (Edinburgh (Edinburgh), United Kingdom), Melanie Clerc, Juergen Schwarze, Andrew Prentice, Kate Templeton, Debby Bogaert

4653 Community use of digital auscultation to improve diagnosis of childhood pneumonia in low resource setting
Salahuddin Ahmed (Dhaka, Bangladesh), Eric McCollum, Harish Nair, Steve Cunningham, Abdullah Baqui

4654 Pseudomonas Aeruginosa Infection in Respiratory Samples in Children with Neurodisability - to treat or not to treat?
Elizabeth Gregson (Sheffield, United Kingdom), Lowri Thomas, Kevin Auton, Heather Elphick

4655 Age-dependent response of the human nasal epithelium to rhinovirus infection
Loretta Müller (Bern, Switzerland), Jakob Usemann, Marco P Alves, Nicole Ritz, Philipp Latzin

4656 Discussion

Channel 4  Session 400 15:40 - 16:40
Oral presentation: Best abstracts in the field of pulmonary rehabilitation
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s) : Airway diseases, Interstitial lung diseases, Sleep and breathing disorders
Method(s) : Cell and molecular biology, General respiratory patient care, Physiology, Pulmonary rehabilitation
Chairs : Frits M.E. Franssen (Horn, Netherlands), Guido Vagheggi (Volterra (PI), Italy)

4657 Introduction

4658 In vitro electrostimulation reveals a lack of muscle adaptation in myotubes from COPD patients
Pascal Pomiès (Montpellier Cedex 5, France), Matthias Catteau, Emilie Passerieux, Léo Blervaque, Bronia Ayoub, Jacques Mercier, Farès Gouzi, Maurice Hayot

4659 INCREASED MYOSTATIN AS A NEGATIVE REGULATOR OF MUSCLE REGENERATION POTENTIAL IN SARCOPENIC COPD PATIENTS: CLINICAL IMPLICATIONS
Antonio Sancho Muñoz (, Spain), Maria Guíart, Diego Rodríguez, Joaquim Gea, Juana Martínez Llorens, Esther Barreiro Portela

4660 Effects of a behaviour change intervention aimed to increase physical activity on sleep quality of adults with asthma: an RCT
Patricia Duarte Freitas (Antibes, France), Natália F P Passos, Regina M Carvalho-Pinto, Alberto Cukier, Rafael Stelmach, Celso R F Carvalho

4661 Effects of high flow nasal cannula during exercise in COPD patients with exercise induced desaturation
Nattawan Sanguanwong (Uthaitani, Thailand), Narerat Sae-Eao, Anan Ananpipatkul, Dittapol Muntham, Worawan Sirichana

4662 Benefits of high-flow nasal cannula oxygen therapy on exercise capacity following acute exacerbation in ILD patients
Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Masaki Oomagari, Yohihide Yanagita, Hitaru Machiguchi, Yuichi Tawara, Koshi Yokomura

4663 Sing-a-Lung: Group singing as training modality in pulmonary rehabilitation for patients with Chronic Obstructive Pulmonary Disease (COPD): A multicenter, cluster-randomised, non-inferiority controlled trial
Mette Kaasgaard (Copenhagen, Denmark), Daniel Bech Rasmussen, Anders Lokke Ottesen, Peter Vuust, Ole Hilberg, Uffe Bodtger

4664 Discussion

Channel 5  Session 401 15:40 - 16:40
Oral presentation: Antibiotic therapy for pneumonia and pleural infections
Abstracts presented in this session are also available as E-posters from 24 August 2020
Introduction

Late Breaking Abstract - Biofilm formation by Pseudomonas aeruginosa in empyema
Wang Ke (Nanning, China), Jinhua Liang, Zhenqiang Zhang, Jinlong Li, Jinliang Kong

Decayed mortality with rollout of electronic pneumonia clinical decision support across 16 Utah hospital emergency departments
Nathan Dean (Murray, United States of America), Caroline Vines, Jenna Rubin, Brandon Webb, Jason Jacobs, Allison Butler, Jachoon Lee, Al Jephson, Nathan Jenson, Missy Walker, Jeremy Irvin, Matthew Lungren, Jason Carr, Raj Srivastava, Todd Allen

The impact of a stewardship programme on outcomes in patients admitted with community-acquired pneumonia
Markus Fally (Copenhagen, Denmark), Simone Israelson, Britta Tarp, Thomas Benfield, Pernille Ravn

International Guideline concordance of empiric antibiotic use in community-acquired pneumonia
Sergi Pascual Guardia (Barcelona, Spain), Judith Marin-Corral, Manuela Carugati, Stefano Aliberti, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Pedro J. Marcos, Martin Kolditz, Marcos I. Restrepo

Association of doxycycline and mortality in patients hospitalized with pneumonia
Eric Mortensen (Simsbury, United States of America), Mark Mersky, Antonio Anzueto

Methicillin-susceptible Staphylococcus aureus in Community-Acquired Pneumonia: Risk Factors and Outcomes
Catia Cilloniz Campos (Barcelona, Spain), Cristina Dominedò, Albert Gabarrus, Carolina Garcia-Vidal, Estela Moreno, Carmen Rosa Vargas, Antoni Torres

PLEURAL EFFUSION IN PATIENTS WITH COMMUNITY ACQUIRED PNEUMONIA
Joseba Andia Iturrate (Barakaldo, Spain), Luis Alberto Ruiz Iturriaga, Beatriz Gonzalez Quero, Ainhoa Gomez Bonilla, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Sonia Castro Quintas, Alejandro Rezola Carasusan, Leyre Serrano Fernandez, Rafael Zalacaín Jorge

Identification of pleural infection microbiological patterns by applying next generation sequencing and bioinformatics analysis
Nikolaos I. Kanellakis (Patras, Greece), Eihab O. Bedawi, John M. Wrightson, John P. Corcoran, Robert Hallifax, Rachel M. Mercer, Vineeth George, Radhika Banka, Maisha Jabeen, Rachelle Åsciak, Robert F. Miller, Nick A. Maskell, Ioannis Psallidas, Timothy Hinks, Derrick Crook, Najib M. Rahman

Discussion

Studio Madrid

Session 402

15:40 - 16:40

Symposium: Air pollution and interstitial lung disease: a call to arms

Aims: To describe the associations of air pollution with interstitial lung diseases (ILD) and pulmonary fibrosis (PF); to describe the importance of collective preventive measures to help patients breathe clean air and reduce their risks of ILD and progression to PF and death.

Disease(s): Interstitial lung diseases

Method(s): Epidemiology

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory therapist, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist

Chairs: Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

15:40 Introduction

15:45 Genetic predisposition and the environment
Maria Molina Molina (Barcelona, Spain)

15:54 Air pollution: particle size matters
Hugh Davies (Vancouver, Canada)

16:03 Interstitial lung disease and air pollution: in India and beyond
Sheetu Singh (Jaipur, Rajasthan, India)

16:12 Intrinsic and extrinsic environmental factors in IPF
Ganesh Raghu (Seattle, United States of America)
Symposium Milan: Don't blame your parents: causes of pulmonary hypertension in early life

**Aims:** To present recent advances in gene discovery in pulmonary hypertension; to explain how these genes might provide new insights into the disease; to describe genetic screening in pulmonary hypertension; and to determine the biology and clinical characteristics of lung developmental disorders and their effects on the development of pulmonary hypertension.

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

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Paediatrician, Patient, Radiologist, Scientist (basic, translational)

**Chairs:** Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

**15:40** Introduction

**15:45** What do we learn from novel genes in pulmonary hypertension?
Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom)

**15:55** Should we screen for hereditary pulmonary hypertension?
David Montani (Le Kremlin-Bicêtre, France)

**16:05** Does gender matter in pulmonary hypertension?
Anna Ryan Hennes (Nashville, United States of America)

**16:15** Bronchopulmonary dysplasia as a cause of pulmonary hypertension
Elianne J.L.E. Vrijlandt (Groningen, Netherlands)

**16:25** Discussion and Q & A

Symposium Paris: Reflections from the Lung Science 2020 conference

**Aims:** The ERS Lung Science Conference is at the forefront of basic and translational respiratory science and it is an essential event for budding respiratory researchers looking to boost their career. It offers a unique opportunity to network with peers from across the globe and aims to present cutting-edge abstracts on novel experimental lung research. The Lung Science Conference 2020 took place on March 5-8 in Estoril, Portugal with the overarching theme metabolic alterations in lung ageing and disease. This session features a selection of scientific presentations that were given at this conference. In addition, the session highlights the winners of the William MacNee Award - for young presenters (40 years old or less at the time of the Conference) who submitted an outstanding abstract, and of the Geoffrey Laurent Award - for the Best Oral presentation.

**Disease(s):** Airway diseases  Interstitial lung diseases

**Tag(s):** Basic science

**Target audience:** Clinical researcher, Medical Student, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational)

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

**15:40** Introduction

**15:45** An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics
Herbert Schiller (Munich, Germany)

**15:54** The promise of mTOR signaling as a therapeutic target for IPF
Rachel Chambers (London, United Kingdom)

**16:03** Itaconate controls the severity of pulmonary fibrosis
Patricia Ogger (London, United Kingdom)

**16:12** Versatile workflow for storage, characterization and celltype resolved transcriptional and epigenetic profiling of human lung samples
Renata Jurkowski (Cardiff (Wales), United Kingdom)
### Studio Vienna  
**Session 405**  
**15:40 - 16:40**

**Lungs on fire: Respiratory infections?**

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, Clinical researcher, General practitioner, Paediatrician, Radiologist, Thoracic surgeon, Nurse, Respiratory physiotherapist

**Chairs:** Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

**Discussants:** Michael Tamm (Basel, Switzerland)

1. **Case 1 - Author:** Sugeesha Wickramasinghe (Sri Lanka)
2. **Case 2 - Author:** Anur R. Guhan (United Kingdom)
3. **Case 3 - Author:** Kathleen Jahn (Switzerland)
4. **Case 4 - Author:** Juliana Rodrigues Garcia (Brazil)

**Discussion and Q&A**

### Channel 1  
**Session 406**  
**16:50 - 19:00**

**Language session: German programme 2020**

**Aims:** The talks will be given in German.

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

**Chairs:** Sylvia Hartl (Wien, Austria), Otto Chris Burghuber (Wien, Austria), Thomas Geiser (Bern, Switzerland)

1. **16:50** Introduction
2. **16:55** ICS discontinuation guidelines in COPD  
   Daiana Stolz (Basel, Switzerland)
3. **17:13** Severe asthma guidelines: 2019 update  
   Roland Buhl (Mainz, Germany)
4. **17:31** Discussion and Q & A
5. **17:46** New guidelines for treatment of nontuberculous mycobacterial pulmonary disease  
   Felix C. Ringshausen (Hannover, Germany)
6. **18:04** Guidelines for long-term non-invasive ventilation in patients with COPD  
   Wolfram Windisch (Cologne, Germany)
Management of severe community acquired pneumonia
Tobias Welte (Hannover, Germany)

Discussion, Q & A and closing

**Channel 2**

**Session 407**

16:50 - 17:50

Oral presentation: New biomarkers for management of obstructive diseases
Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

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

**Chairs:** Antonio Spanevello (Milan, Italy), Péter Horváth (Budapest, Hungary)

**4713 Introduction**

**4714 Late Breaking Abstract - Increased serum levels of YKL-40 in male smoking chronic obstructive pulmonary disease patients associated with altered miRNA levels in alveolar macrophages**
Benedikt Zöhrer (Stockholm, Sweden), Anna James, Nabil Souihi, Bettina Brundin, Reza Karimi, David J. Erle, Sven-Eric Dahlén, C. Magnus Sköld, Åsa M. Wheelock

**4715 Detecting shortness of breath remotely and accurately using smartphones and vocal biomarkers**
Shady Hassan (Julus, Israel), Daniel Aronovich, Kevin Kotzen, Divya Mohan, Ruth Tal-Singer, Paul Simonelli

**4716 A combination of biomarkers for fibrinolysis and basement membrane destruction predicts mortality in the ECLIPSE COPD cohort**
Jannie M. B. Sand (Herlev, Denmark), Sarah R Rannow, Lasse Langholm, Morten A Karsdal, Tina Manon-Jensen, Ruth Tal-Singer, Bruce E Miller, Jorgen Vestbo, Diana J Leeming

**4717 Alpha-1 antitrypsin deficiency in patients with COPD/emphysema, bronchiectasis and asthma**
Julia Tüffers (Marburg, Germany), Martina Veith, Andreas Klemmer, Erika Peychev, Christoph Berndt, Viktor Kotke, Christian Herr, Robert Bals, Claus Franz Vogelmeier, Timm Greulich

**4718 Desmosine is a predictor of long-term cardiovascular mortality in bronchiectasis**
Jeffrey T.-J. Huang (Dundee (Angus), United Kingdom), Elena Kuzmanova, Alison Dicker, Holly Keir, Simon Finch, Stefano Aliberti, Thomas Fardon, James Chalmers

**4719 Low blood eosinophil count is associated with gram-positive cocci infection and poor clinical outcomes in severe exacerbations of COPD**
Fei Wang (Beijing, China), Fei Wang, Luoman Yang, Meng Wang, Bei He

**4720 Collagen and elastin turnover increase at COPD exacerbation irrespectively its etiology**
Eleni Papakonstantinou (Thessaloniki, Greece), Jannie Sand, Leticia Grize, Hans Hirsch, Michael Tamm, Morten Karsdal, Daiana Stolz

**4721 Discussion**

**Channel 3**

**Session 408**

16:50 - 17:50

Oral presentation: Treatments and biomarkers for lung allograft function and outcome
Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** Transplantation, Respiratory intensive care, Cell and molecular biology

**Chairs:** Michael Perch (Gentofte, Denmark), Robin Vos (Leuven, Belgium)

**4722 Introduction**

**4723 Late Breaking Abstract - Prediction of chronic lung allograft rejection (CLAD) by measurement of peripheral T cells linked to the inhibitory check-point HLA-G**
Olivier Brugière (Suresnes, France), Olivier Brugière, Domitille Mouren, Isabelle Kuzniak, Edgardo Carosella, Joel Le Maoul, Nathalie Rouas-Freiss

**4724 The use of mTOR inhibitors is associated with improved survival in lung transplant recipients**
Yael Lebel-Shostak (Petah-Tikva, Israel), Barak Pertsov, Ori Grossberger, Dror Rosengarten, Dorit Shitenberg, Moshe Heshling, Shai Amor, Mordechai Kramer
**Real life experience in mTOR-inhibitors after lung transplantation**
Saskia Bos (Lovenjoel, Belgium), Laurens De Sadelere, Bart Vanuudenarde, Jonas Yserbyt, Lieven Dupont, Laurent Godinas, Geert Verleden, Robin Vos

**Intra-alveolar neutrophil-derived microvesicles predict development of primary graft dysfunction after lung transplantation.**
Sanooj Soni (London, United Kingdom), Rosalba Romano, Kieran O’Dea, Brijesh Patel, Kate Tatham, Marissa Koh, Dianeira Tsriripou, Andre Simon, Louit Thakuria, Michael Wilson, Anna Reed, Nandor Marcin, Masao Takata

**Exhaled breath particles - a potential noninvasive method to detect and monitor chronic allograft dysfunction in lung transplant recipients**
Sandra LINDSTEDT (Lund, Sweden), Anna Niroomand, Oskar Hallgren, Darcy Wagner

**Elevated lung clearance index (LCI) as an early marker of future bronchiolitis obliterans (BOS) post lung transplant**
Madeleine Driskel (Manchester, United Kingdom), Alex Horsley, Mohamed Al-Alouf

**Plasma levels of acute phase proteins in patients from the multicenter longitudinal French Cohort in Lung Transplantation (COLT): a pilot study**
Sabina Janciauskiene Wallmark (Hannover, Germany), Pierre-Joseph Royer, Jan Fuge, Sabine Wrenger, Joanna Chorostowska, Huiyuan Zhu, Tobias Welte, Martine Reynaud-Gaubert, Antoine Roux, Adrien Tissot, Antoine Magnan

**Usefulness of lactate dehydrogenase and serum C-reactive protein in the follow-up of patients with lung transplantation**
Sara Hermoso De Mendoza Aristegui (PALMA, Spain), Luisa Ramón, Carla Suárez, Carlos Bravo, Cristina Berastegui, Jaume Sauleda, Ernest Sala, Francisco Javier Verdú

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**Channel 4**  
**Session 409**

**16:50 - 17:50**

**Oral presentation: The impact of different treatment modalities on obstructive sleep apnoea**
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** Respiratory intensive care   Physiology   Cell and molecular biology   General respiratory patient care

**Chairs:** Ludger Grote (Göteborg, Sweden), Sophia E. Schiza (Heraklion, Greece)

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**4732 Introduction**

**4733 Late Breaking Abstract - Does adaptive servo ventilation lead to hypocapnia?**
André Barleben (Schwerin, Germany), Wolfram Grüning

**4734 BLOCKAGE OF TLR4 OR NLRP3 INHIBITS IL-1ß ACTIVATION IN RESPONSE TO INTERMITTENT HYPOXIA**
Susan Fitzpatrick (Dublin 4, Ireland), Ailbhe King, Silke Ryan

**4735 Intranasal leptin prevents opioid-induced respiratory depression**
Vsevolod Y. Polotsky (Baltimore, United States of America), Carla Freire, Huy Pho, Lenise Kim, Xin Wang, Jhansi Dyavanapalli, Stone Streeter, Thomaz Fleury-Curado, David Mendelowitz

**4736 The effect of CPAP on quality of life in patients with ‘very’ mild Obstructive Sleep Apnoea (OSA): Results from a subset of the MERGE Randomised Trial**
Mary J Morrell (London, United Kingdom), Julia Kelly, Alison Wimms, Christopher Turnbull, Alison Mcmillan, Sonya Craig, John O'Reilly, Annabel Nickol, Emma Hedley, Meredith Decker, Leslee Willes, Peter Calverley, Adam Benjafield, John Stradling

**4737 FACE: Phenotyping analysis of chronic heart failure (CHF) patients with sleep disordered breathing (SDB) indicated for adaptive servoventilation (ASV): 2-year follow-up results.**
Renaud Tamisier (Grenoble, France), Thibaud Damy, Jean-Marc Davy, Johan Verbraecken, Sebastien Bailly, Florent Lavergne, Alain Palot, Frederic Goutorbe, Jean-Louis Pepin, Marie-Pia D'Ortho

**4738 Effects of CPAP and mandibular advancement devices on cardiac biomarkers in patients with obstructive sleep apnea**
Iana Andreieva (Zaporizhia, Ukraine)

**4739 Impact of a multimodal telemonitoring intervention on CPAP adherence in symptomatic low-cardiovascular risk sleep apnea: a randomized controlled trial**
Renaud Tamisier (Grenoble, France), Erika Treptow, Marie Joyeux-Faure, Patrick Lévy, Marc Sapène, Meriem Benmerad, Sébastien Bailly, Yves Grillet, Bruno Stach, Jean-François Muir, Hervé Pegliasco, Jean-Louis Pépin
Effect of CPAP treatment on adhesion molecules in coronary artery disease with nonsleepy obstructive sleep apnoea: The RICCADS randomised controlled trial
Ding Zou (Göteborg, Sweden), Yeliz Celik, Tulay Lindberg, Erik Thuunström, Yuksel Peker

Discussion

Oral presentation: Muscle, exercise capacity and symptoms of chronic lung disease: a physio update

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases, Respiratory critical care, Interstitial lung diseases, Pulmonary vascular diseases
Method(s): Pulmonary rehabilitation, Physiology, Pulmonary function testing, Epidemiology, Public health
Chairs: Deniz Inal-Ince (Ankara, Turkey), Cristina Isabel Oliveira Jâcome (Viatodos, Portugal)

Introduction

Effects of Ground-Based Walking Training in Pulmonary Hypertension
Özge Ertan (İstanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Gulfer Okumus

Sniff nasal inspiratory pressure as a predictor of 1-year mortality after exacerbation of COPD
Tsu Yoshi Ichikawa (Isehara, Kanagawa, Japan), Sakurako Tajiri, Masanori Yokuba, Yu Horimizu, Saki Yamaguchi, Akiko Kawakami, Masahiko Kimura, Tsutsuri Kondo, Masato Katagiri, Minoru Katohura

Oxygen consumption (V\textsubscript{O}2) kinetics during recovery after resistance exercises in COPD and matched controls
Andre Nyberg (Umeå, Sweden), Lori Desroches, Erik Frykholm, Didier Saey, Mickael Martin, Francois Maltais

Is Virtual Autonomous Physiotherapist Tele-rehabilitation Program feasible in Idiopathic Pulmonary Fibrosis?
Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Ole Hilberg, Anders Løkke, Elisabeth Bendstrup

Whole-body vibration training versus conventional balance training in patients with severe COPD - a randomized, controlled trial
Rainer Gloeckl (Schoenau am Koenigssee, Germany), Tessa Schneeberger, Inga Jarosch, Daniela Leitl, Tobias Reinold, Klaus Kenn, Rembert Koczulla

Effect of oral beta-alanine supplementation on muscle carnosine in patients with COPD: A double blind, placebo-controlled, randomized trial
Jana De Brandt (Diepenbeek, Belgium), Wim Derave, Frank Vandenabeele, Joseph Aumann, Laura Blanqueta, Inge Everaert, Martijn Spruit

Pain prevalence, -localization and -intensity in people with and without COPD: A cross-sectional study from The Danish Health and Morbidity Survey
Henrik Hansen (Dragør, Denmark), Jeanette Hansen, Nina Godtfredsen, Stig Mølsted

Symposium: The ageing lung epithelium: effects on repair and regeneration

Aims: To describe age-related impairments in lung repair and evaluate therapeutic strategies that target age-dependent dysfunction in lung disease; to describe the mechanism by which the ageing epithelium contributes to disease susceptibility; to evaluate current methods and models (in vitro and in vivo) for studying the activation of ageing pathways in acute and chronic lung diseases; to evaluate preclinical and clinical development of age-altering therapeutic strategies and scientific advances that may direct current and future therapeutic developments; and to determine the potential for developing new therapies, identifying biomarkers and differentiating among therapies designed to prevent and/or reverse ageing-associated pulmonary diseases.

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Cell and molecular biology, Imaging
Tag(s): Basic science
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Patient, Scientist (basic, translational), Thoracic surgeon
Chairs: Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

Introduction

Targeting the lung epithelium: does age matter?
Paul Wolters (San Francisco, United States of America)
### Studio Milan

**Session 412  16:50 - 17:50**

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

**Treatment and prevention of severe pulmonary hypertension**

**Aims:** To describe current therapeutic approaches in pulmonary hypertension and to evaluate whether better knowledge of the side effects of drugs can enhance disease prevention.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Scientist (basic, translational)

**Chairs:** Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

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<thead>
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<tr>
<td>16:50</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>16:55</td>
<td><strong>Drug-related pulmonary hypertension: new threats?</strong></td>
<td>David Montani (Le Kremlin-Bicêtre, France)</td>
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<tr>
<td>17:05</td>
<td><strong>PROs: which instruments are available in pulmonary hypertension?</strong></td>
<td>Joanna Pepke-Zaba (Cambridge, United Kingdom)</td>
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<tr>
<td>17:15</td>
<td><strong>The metabolic syndrome and pulmonary hypertension</strong></td>
<td>Anna Ryan Hemnes (Nashville, United States of America)</td>
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<tr>
<td>17:25</td>
<td><strong>Novel insights into the pathogenesis of pulmonary arterial hypertension</strong></td>
<td>Marc Humbert (Le Kremlin-Bicêtre, France)</td>
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<td>17:35</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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### Studio Paris

**Session 413  16:50 - 17:50**

**Hot topics: Bugs secret's: the way the microbiome changes our future**

**Aims:** To summarize what is currently known on the microbiome and its influence on health and disease with special attention to lung diseases, from infancy, priming into malfunction of the microbiome in diseases such as allergic diseases, asthma, cystic fibrosis (CF) and later into COPD exacerbations; to highlight studies of early colonisation and microbiome formation into assessing possible intervention strategies to reach a healthy balance of microbial colonization, also important for allergy prevention; to take a critical view on current treatment strategies and stressing the influence of microbial dysbiosis as a feature of some exacerbations in chronic airway diseases such as asthma, CF and COPD.

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

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<tr>
<td>16:50</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>16:55</td>
<td><strong>Understanding new measurement techniques of the microbiome of the lung and mechanism of bacteria interaction, communication and biofilm formation</strong></td>
<td>Michael Cox (Birmingham, United Kingdom)</td>
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<tr>
<td>17:05</td>
<td><strong>Early life microbiome: the way it changes the future</strong></td>
<td>Debby Bogaert (Edinburgh, United Kingdom)</td>
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<tr>
<td>17:15</td>
<td><strong>Bacterial dysbiosis in pediatric lung diseases such as asthma and CF</strong></td>
<td>Alexander Dalpke (Dresden, Germany)</td>
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</table>
## Studio Vienna  
**Session 414  16:50 - 19:00**

**Grand round: Clinical grand round: revisiting current guidelines**

**Aims:** To describe controversial aspects of the current guidelines in cough, community-acquired pneumonia, surgical resection in lung cancer and pulmonary embolism; to discuss data underpinning non-adherence and alternative approaches to on-going recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern and need for further research.

Prof. Rodrigo Andres Floto, speaker in this session has received the ERS Research Award in 2015.

**Disease(s):** Pulmonary vascular diseases, Thoracic oncology, Respiratory infections, Airway diseases

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Medical Student

**Chairs:** Omar S. Usmani (London, United Kingdom), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

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<tr>
<td>16:50</td>
<td>Introduction</td>
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<tr>
<td>16:55</td>
<td>Diagnosis and management of community acquired pneumonia in adults</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<tr>
<td>17:15</td>
<td>Discussion and Q &amp; A</td>
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<td>17:20</td>
<td>Chronic refractory cough</td>
<td>Imran Satia (Hamilton (ON), Canada)</td>
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<td>17:40</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>17:45</td>
<td>Non-tuberculous mycobacteria</td>
<td>Rodrigo Andres Floto (Cambridge (Cambridgeshire), United Kingdom)</td>
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<td>18:05</td>
<td>Discussion and Q &amp; A</td>
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<td>18:10</td>
<td>Fitness for radical therapy in lung cancer patients</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
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<tr>
<td>18:30</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>18:35</td>
<td>Acute pulmonary embolism</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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<td>Discussion and Q &amp; A</td>
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## Channel 2  
**Session 415  18:00 - 19:00**

**Oral presentation: Cutting edge science: novel molecules and mechanisms of airway diseases**

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

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

**Chairs:** Lena Uller (Lund, Sweden), Ian M. Adcock (London, United Kingdom)

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<th>Time</th>
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<tr>
<td>18:40</td>
<td>Introduction</td>
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<tr>
<td>18:45</td>
<td>Inhaled corticosteroid (ICS) induced metabolome changes in asthmatics.</td>
<td>Peter Daley-Yates (Uxbridge, United Kingdom), Brian Kepler, Noushin Brealey, Shaila Shabbir, Dave Singh, Neil Barnes</td>
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<tr>
<td>19:00</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>19:05</td>
<td>Azithromycin prevents airway epithelial barrier dysfunction induced by sulphur dioxide inhalation</td>
<td>Sævar Inghóðsson (Reykjavik, Iceland), Jennifer Kricker, Thorarinn Gudjonsson, Ari Jon Arason, Jon Pétur Joelsson, Bryndís Valdimarsdottir, Fridrik Runar Gardarsson, Clive Page, Fredrik Lehmann</td>
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</table>
Changes in DNA methylation after corticosteroids treatment in COPD patients
Jos van Nijnatten (Groningen, Netherlands), Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Maarten Van Den BERGE, Alen FAIZ

PB-680, an oral A1 adenosine receptor antagonist, inhibits the late allergic response (LAR) in mild-to-moderate atopic asthmatics: a Phase-IIa trial

PGE2 and PGJ2 restore defective lung epithelial progenitors induced by cigarette smoke
Xinhui Wu (Groningen, Netherlands), Sophie Bos, Lars Verkleij, Angela D’Ambrosi, Martina Schmidt, Loes Kiestemaker, Reinoud Gosens

Ensifentrine, a dual PDE3/PDE4 inhibitor, improves FEV1 regardless of smoking status or history of chronic bronchitis
Tara Rheault (Research Triangle Park, United States of America), Thomas Bengtsson, Kathleen Rickard

Discussion

Channel 3  Session 416  18:00 - 19:00
Oral presentation: Respiratory disorders in neonatal and paediatric intensive care units: ventilation and chronic conditions
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Airway diseases  Pulmonary vascular diseases
Method(s): Pulmonary function testing  Physiology  Cell and molecular biology  Respiratory intensive care  Imaging  Epidemiology
Chairs: Theodore Dassios (Beckenham (Kent), United Kingdom), Anna Lavizzari (Milano (MI), Italy)

Introduction

Clinically-relevant tracheostomy prediction model in neonatal bronchopulmonary dysplasia via respiratory MRI
Nara Higano (Cincinnati, United States of America), Stephanie Adaikalam, Erik Hysinger, Alister Bates, Robert Fleck, Andrew Schapiro, Melissa House, Amy Nathan, Shawn Ahlfeld, Jennifer Brady, Andrew Hahn, Sean Fain, Paul Kingma, Jason Woods

Mode of delivery and lung function of 16-19 year olds born at less than 29 weeks gestation
Anne Greenough (London, United Kingdom), Christopher Harris, Alan Lunt, Janet Peacock

Early risk stratification in preterm infants with Bronchopulmonary Dysplasia via pulmonary arterial flow measurements in MRI
Friederike Häfler (München, Germany), Alida Kindt, Kai Förster, Christine Von Törne, Stefanie M. Hauck, Benjamin Schubert, Andreas W. Flemmer, Olaf Dietrich, Sophia Stöcklein, Ingram Schulze-Neick, Anne Hilgendorf

Comparison of oxygen-haemoglobin dissociation curves (ODC) and 99mTc-macroaggregated-albumin lung scans (MAA) in the diagnosis of Hepatopulmonary Syndrome (HPS) in children
Emma Russell-Jones (London, United Kingdom), Theodore Dassios, Tassos Grammatikopoulos

Prevalence and consequences of left vocal cord paralysis in young adults born extremely premature with a history of neonatal patent ductus arteriosus surgery
Mette Engan (Bergen, Norway), Merete Engeseth, Ingvild Engesæter, Ole Gamlemshaug, Maria Vollseter, Thomas Halvorsen, Ola Drange Røksund, Hege Clemm

Physiological deadspace in ventilated infants with differing lung pathologies
Emma Williams (London, United Kingdom), Theodore Dassios, Anne Greenough

Contribution of manganese superoxide dismutase Ala16Val to the development of chronic respiratory pathology in children after bronchopulmonary dysplasia
Elena Pavlinova (Omsk, Russian Federation), Irina Kirshina, Ekaterina Kurmasheva, Natalia Vlasenko, Aleksandra Mingairova, Olga Savchenko

Discussion

Channel 4  Session 417  18:00 - 19:00
Oral presentation: Digital technologies in airway diseases
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s) : Airway diseases
Method(s) : General respiratory patient care  Pulmonary rehabilitation  Epidemiology
Chairs : Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Vitaly Mishlanov (Perm, Russian Federation)

4797  Introduction

4798  Late Breaking Abstract - Accuracy of artificial intelligence in detecting pathological breath sounds in children using digital stethoscopes
Ajay Kevat (Coogee, Australia), Anaath Kalirajah, Robert Roseby

4799  An eHealth program to reduce hospitalizations due to acute exacerbation of chronic obstructive pulmonary disease - a real-life study
Marise Kasteleyn (Leiden, Netherlands), Amanda Van Buul, Rini Voeten, Caroline Derksen-Franken, Niels Chavannes

4800  Promising integrated care platform developed with and tested by respiratory patients: lessons learned form the European H2020 Connecare study
Esther I. Metting (Groningen, Netherlands), Maarten M.H. Lahr

4801  Davos@home: patient and health care providers' perceptions on mHealth after high altitude climate treatment
Jacob K. Sont (Leiden, Netherlands), Rishi Khusial, Sofie Van Koppen, Persijn Honkoop, Lous Rijssenbeek-Nouwens, Marieke Drijver-Messelink

4802  Use of Machine learning to predict asthma exacerbations
Christier Janson (Uppsala, Sweden), Gunnar Johansson, Kjell Larsson, Björn Ställberg, Mario Mueller, Mateusz Luczko, Bine Kjøeller Bjergaard, Stuart Fell, Gerald Bacher, Bjorn Holzhauer, Pankaj Goyal, Karin Lisspers

4803  Cognitive intelligence support in the detection of COPD
Federico Piffer (Trento (TN), Italy), Romano Nardelli, Filippo Nardelli

4804  Feedback on inhaler use does not significantly improve inhaled corticosteroid adherence or clinical outcomes
Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Mitesh Patel, Tricia M. Mckeever, Dominick E. Shaw

4805  Engaging younger people in their asthma management - findings from a pilot telemedicine asthma nurse service
Andrew Cumella (London, United Kingdom), Jarrad King, Helen Sinton, Samantha Walker

4806  Discussion

Channel 5  Session 418  18:00 - 19:00

Oral presentation: How do different treatment strategies translate into costs
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases  Airway diseases  Respiratory critical care  Pulmonary vascular diseases  Sleep and breathing disorders
Method(s) : Public health  General respiratory patient care  Respiratory intensive care  Epidemiology
Chairs : Sundeep Santosh Salvi (Pune (Maharashtra), India), Nicolas Kahn (Heidelberg, Germany)

4807  Introduction

4808  Serotype dynamics in pneumococcal diseases and the performance of vaccination strategies for older adults in Germany
Alexander Kuhlmann (Hanover, Germany), J.- Matthias Graf Von Der Schulenburg

4809  Cost-effectiveness of switching from omalizumab to mepolizumab in uncontrolled severe eosinophilic asthma
Giovanna Elisiana Carpagnano (Bari, Italy), Emanuela Resta, Corrado Pelaia, Maria D'Amato, Nunzio Crimi, Nicola Scichilone, Cecilia Calabrese, Onofrio Resta, Giolamo Pelaia, Maria Pia Foschino Barbaro

4810  Management-related costs of Idiopathic Pulmonary Fibrosis (IPF) in Belgium
Danielle Strens (Grimbergen, Belgium), Benjamin Bondue, Caroline Dahlqvist, Hans Slabbynk, Julien Guiot, Guy F. Joos, Natacha Gusbain, Wim Janssens, Antoine Froidure, Wim Wuyts

4811  Cost-IPFfectiveness of antifibrotic treatment: real-life data from a Greek University Hospital
Ilias Dimeas (Larissa, Greece), Sotirios Sinis, Paraskevi Kigou, Lampropoulos Ioannis, Foteini Malli, Konstantinos Gourgoulianis, Zoe Danili

4812  Home vs inpatient CPAP titration costs in OSA patients from Southern Italy: the role of telemedicine.
Valentina Di Lecce (Modugno (BA), Italy), Roberto Sabato, Onofrio Resta, Giovanna Elisiana Carpagnano, Andrea Portacci, Pasquale Tondo, Donato Lacedonia, Maria Pia Foschino Barbaro
Investigating the Respiratory therapist perception of committed medical incidents in Intensive care unit (ICU).
Abdullah AlQahtani (Nottingham, United Kingdom)

Estimating the Cost of Pulmonary Embolism in Greece with the help of large data
Ilias Dimeas (Larissa, Greece), Ioannis Lampropoulos, Dimitrios Raptis, Foteini Malli, Eleftherios Aggelopoulos, Zoe Daniil, Konstantinos Gourgoulianis

Publication rate and characteristics of industry-sponsored asthma clinical trials
Pravin Bolshte (Airoli, India), Snehal Khanolkar, Ruchika Thale, Madhulika Bolshte, Vaibhavi Jakhetia

The cost of treatment of tuberculosis in children of Belarus
Larissa Gorbach (Minsk, Belarus)

COPD and Asthma Disease-specific Health-related Quality of Life Scales and Their Applications in Health Technology Assessment and in China: Literature Review
Shiyi Gong (Beijing, Switzerland), Hao Hu, Yangxian Zhang, Feng Xie, Ting Yang

Discussion
Studio Madrid Session 419 18:00 - 19:00
Journal session: When the lung gets stiff
Diagnosis, treatment and controversy (a joint ERS/New England Journal of Medicine (NEJM) session)
Aims: To describe the pathobiology, epidemiology, causes, diagnosis and treatment of idiopathic pulmonary fibrosis (IPF), the most common type of interstitial lung disease; to evaluate pulmonary fibrosis resulting from other diagnosable conditions, such as scleroderma, sarcoidosis and rheumatoid arthritis; to describe the epidemiology, biology, clinical presentation and treatment of this group of conditions; and to describe controversies in the diagnosis and treatment of rapidly progressive-interstitial lung diseases.

Disease(s): Interstitial lung diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physician in Pulmonary Training, Scientist (basic, translational)
Chairs: Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

18:00 Introduction
Jeffrey Drazen (Boston, United States of America)

18:05 Idiopathic pulmonary fibrosis (IPF): epidemiology, biology, diagnosis and treatment
Fernando J. Martinez (New York, United States of America)

18:15 Interstitial lung diseases (ILDs) secondary to other conditions: common biology, epidemiology, diagnosis and treatment
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

18:25 Pro-con debate: Does it make sense to view rapidly progressive ILD as a distinct clinical entity? - CON
Vincent Cottin (Lyon, France)

18:35 Pro-con debate: Does it make sense to view rapidly progressive ILD as a distinct clinical entity? - PRO
Elisabetta Renzoni (London, United Kingdom)

18:45 Discussion and Q & A

18:55 Conclusion
Jeffrey Drazen (Boston, United States of America)

Studio Milan Session 420 18:00 - 19:00
Symposium: Cardiovascular morbidity and mortality after pulmonary embolism
Aims: To describe the long-term cardiovascular morbidity and mortality after acute pulmonary embolism; to summarize relevant information about acute pulmonary embolism in association with certain specific cardiopulmonary conditions.

Disease(s): Pulmonary vascular diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient
Chairs: Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

18:00 Introduction
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<td>Atrial fibrillation in the course of pulmonary embolism: just a little smoke or fuel to the fire?</td>
<td>Behnood Bikdeli (New York, United States of America)</td>
<td>4827</td>
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<td>18:15</td>
<td>Management of pulmonary embolism beyond the acute phase: pay attention to long-term sequelae</td>
<td>Irene Lang (Wien, Austria)</td>
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<td>18:25</td>
<td>Venous thromboembolism and arterial atherosclerosis: a bidirectional association</td>
<td>Walter Ageno (Varese, Italy)</td>
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<td>18:35</td>
<td>Closing the gap between pulmonary embolism and sleep apnea</td>
<td>Alberto García Ortega (Valencia, Spain)</td>
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**Studio Paris  Session 421  18:00 - 19:00**

**Symposium: Human ex vivo models of interstitial lung disease**

**Aims**: To present models of early events of idiopathic pulmonary fibrosis (IPF) ex vivo and the use of these models in evaluating pathogenesis and treatment; and to evaluate the potential use of lung organoids for drug screening.

**Disease(s)**: Interstitial lung diseases

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

**Tag(s)**: Basic science

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs**: Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

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<td>Introduction</td>
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<tr>
<td>18:05</td>
<td>3D tissue culture to study the mechanisms of lung repair in IPF</td>
<td>Melanie Königshoff (Denver, United States of America)</td>
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<td>18:15</td>
<td>Using induced pluripotent stem cells to study the type II pneumocyte</td>
<td>Killian Hurley (Dublin 3, Ireland)</td>
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<td>18:25</td>
<td>Lung-on-a-chip: state of the art</td>
<td>Nuria Roldan (Bern, Switzerland)</td>
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<tr>
<td>18:35</td>
<td>The role of cell lines in modelling the type II pneumocyte in interstitial lung disease</td>
<td>Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom)</td>
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**19:15-20:15**

**INDUSTRY EVENING SYMPOSIUM**  SEE PAGE 1

**20:30-21:30**

**INDUSTRY EVENING SYMPOSIUM**  SEE PAGE 1
**Language session: French programme 2020: Part II**

**Aims:** This programme will be available in French and English.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician

**Chairs:** Thierry Troosters (Leuven, Belgium), Chantal Raherison-Semjen (Pessac, France)

**09:30** introduction

**09:35** Diagnostic de l’EP chez la femme enceinte / Diagnosis of pulmonary embolism in pregnant women
Florence Parent (Clamart, France)

**09:45** Place des anti-IL5 dans les pathologies éosinophiliques (hors asthme sévère) / Anti-IL-5 therapy for indications other than severe asthma
Philippe Bonniaud (Dijon, France)

**09:55** Risques cardiovasculaires et BPCO / Cardiovascular risks and COPD
Bruno Degano (grenoble, France)

**10:05** Exploration de la fonction respiratoire selon l’âge / Lung function testing and age
Sonia Rouatbi (Sousse, Tunisia)

**10:15** Discussion and Q&A

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**Oral presentation: Prediction and management of outcomes in obstructive diseases**

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

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

**Chairs:** Jose Luis Lopez-Campos Bodineau (Sevilla, Spain), Stephanie Everaerts (Leuven, Belgium)

**4909** Introduction

**4910** The long-term clinical and economic impact of COPD exacerbations: an observational study (SHERLOCK)
John Haughney (Glasgow, United Kingdom), Amanda J Lee, Mintu Nath, Hana Müllerová, Ulf Holmgren, Enrico De Nigris, Bo Ding

**4911** Prediction model of COPD acute exacerbation with big data by machine learning methods
Chin Kook Rhee (Seoul, Republic of Korea), Jin Woo Kim, Kwang Ha Yoo, Ki-Suck Jung

**4912** Automated computed tomography lung densitometry in bronchiectasis patients
Rodrigo Abensur Athanor (São Paulo (SP), Brazil), Marcio Yamada Sawamura, Maria Cecília Nieves Teixeira Maiorano De Nucci, Samia Zahi Rached, Alberto Cukier, Regina Maria Cavalho-Pinto, Rafael Stelmach, Antonildes Nascimento Assunção Junior, Marcelo Strauss Takahashi, Cesar Higa Nomura

**4913** CT evaluations of erector spinæ muscle, emphysema, and airway disease for predicting mortality in COPD
Naoya Tanabe (Kyoto, Japan), Susumu Sato, Kazuya Tanimura, Hiroshi Shima, Tsuyoshi Oguma, Atsuyasu Sato, Shigeo Muro, Toyohiro Hirai

**4914** Validation of clinical clusters for long-term mortality in two European COPD cohorts
Sebastian Gagatek (Stockholm, Sweden), Sara Wijnant, Björn Ställberg, Karin Lisspers, Guy Brusselle, Xing Wu Zhou, Mikael Hasselgren, Scott Montgomery, Josefin Sundh, Janson Christer, Ossur Emilsson, Lies Lahousse, Andrei Malinovschi
Difficult to manage COPD Exacerbations: Risk factors (DIMECO Study). Turkish Thoracic Society COPD Assembly.


European expert consensus on assessment and management of hospitalised exacerbations of COPD (CICERO ERS CRC)


Discussion

Channel 3

Session 438 09:30 - 10:30

Oral presentation: Genetic and environmental influences on development of asthma and COPD

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases

Method(s): Epidemiology  Cell and molecular biology  Public health

Chairs: Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom), Klaus Bonnellykke (Allerød, Denmark)

Introduction

A genome-wide association study of asthma-COPD overlap syndrome (ACOS)

Catherine John (Leicester, United Kingdom), Anna L Guyatt, Nick Shr ine, Th orunn Olafsdottir, Ji angyuan L iu, Lystra Hayden, Su H Ch u, Jukka Koskela, Jian’an L uan, Xingnan Li, Nat alicie T er zikhan, Hanfei Xu, Traci M Bartz, Hans Petersen, Shuguang Leng, Gudmar Thorleifsson, D eborah A Meyers, Eugene R Bleecker, L ori C Saka do, Carlos Iribarren, Y ohannes T ešfaiga z, S ina A Gharib, J osse Dupuis, L ies L ahousse, V ictor E Ortega, K ari S tefansson, I an Sayers, I an P Hall, C laudia L angenberg, S amuli Ri patti, T arja Laitinen, A nn C Wu, J essica L asky-Su, C aroline Hay ward, B en B runmont, A runf ul Langham m er, I ngilei t J onsdot tiri, M ichael H Ch o, L ouise V Wain, M artin D T obin

Bronchial airway inducible expression and methylation QTL mapping identifies a single nucleotide polymorphism predicting inhaled corticosteroids response heterogeneity

Elise M.A. Slob (Amsterdam, Netherlands), A len Faiz, Susanne V ijverberg, C ristina L ongo, Merve K utlu, P atricia S oares, F ook T im C hern, E s ther H errera-L uis, A ntonio Espu ela O rti z, M aria D el P ino Y anes, E steban Burchard, U roš P otocnik, C ol in Palmer, C yrielle M aroteau, S teve T urner, Kat ia V erham me, L eila K ari mi, S omnath M ukhopadhyay, W im T emins, P ier t H emstra, M ariell e P ijnenbur g, M aarten V an D en Ber ge, A nke-H ilse Maitland-V an D er Zee, G erard K oppelman

Interaction between V GDF exposure and antioxidant genes on COPD in UK Biobank

Diana van der Plaat (London, United Kingdom), S ara D e M atte is, S teven S adhra, D ebbie Jar vis, P aul C ullinan, C osetta M inelli

Identification and characterisation of twenty-two novel SERPINA1 pathological mutations

Stefania Ottaviani (Pavia (PV), Italy), A nna M aria F ra, A lice M aria B alderacchi, V alentina B arzon, T omas P atric k C arroll, D avide P iloni, F rancesca M ariani, N oe l G erard M c Elvaney, A nge lo G uido C orciso, I laria F errarotti

Activation of toxicology-related genes in human airway constructs after exposure to indoor air particulate matter from moisture-damaged houses

M aria-E liza Nordberg (K uopio, Finland), M artin T äubel, H anna L eppänen, A nne H yvä ri ne, K ati H uttunen

Discussion

Channel 4

Session 439 09:30 - 10:30

Oral presentation: Airway infection: the microbiome and beyond

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases

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

Chairs: Alison Dicker (Dundee (Angus), United Kingdom), Chair to be confirmed

Introduction

Late Breaking Abstract - The burden of pertussis in adults with asthma: a retrospective database study in England

Kinga Meszaros (Wavre, Belgium), Emmanuel ARIS, Esse Ifebi Akpo, Amit Bhavsar, Lauriane Harrington, Evie Merinopoulou, Nicola Sawalhi-Leckenby, Elisa Turriani, Dimitra Lambrelli, Piyali Mukherjee
Late Breaking Abstract - Seroprevalence of Bordetella pertussis in chronic obstructive pulmonary disease (COPD) patients
Peter Van den Steen (Wavre, Belgium), Piyali Mukherjee, Brigitte Cheuvart, Nathalie Baudson, Monique Dodet, Elisa Turriani, Lauriane Harrington, Nadia Meyer, Simona Rondini, Laura Taddei

Late Breaking Abstract - Experimental Respiratory Syncytial Virus infection in adults 60-75 years
Alex Mann (London, United Kingdom), Mariya Kalinova, Andrew Catchpole, Olesya Rusyn, Veronika Horvathova, Kingsley Eze, Marco De Sa, Alan Bell

Late Breaking Abstract - CPA net Registry - An International Chronic Pulmonary Aspergillosis Registry
Eva Van Braeckel (Ghent, Belgium), Lander Van Acker, Helmut J.F. Salzer, Danila Seidel, Oliver A. Cornely, Martin Hoenigl, Ana Alastrauey-Izquierdo, Christophe Henequin, Cendrine Godet, Aleksandra Barac, Holger Flick, Oxana Munteani, Christian B. Laursen, Jesper Romhildt Davidsen

Applying Modern Molecular Microbiological Techniques to Identify Treatable Chronic Bacterial Airway Infection in Severe Asthma
Maisha Jabeen (Oxford (Oxfordshire), United Kingdom), Teresa Street, Dona Foster, Derrick Crook, Nicholas Sanderson, Ian Pavor, Paul Klenerman, Timothy Stopford Christopher Hinks

Clinical phenotypes of exacerbation are associated with differences in microbial composition and diversity in COPD
Holly Rachael Keir (Dundee (Angus), United Kingdom), Alison Dicker, Mike Lonergan, Megan Crichton, Bruce Miller, Ruth Tal Singer, James D Chalmers

Persistence and genetic adaptation of Pseudomonas aeruginosa in patients with COPD.

A high-risk airway mycobiome characterises frequent COPD exacerbators
Pei Yee Tiew (Singapore, Singapore), Alison Dicker, Holly R Keir, Mau Ern Poh, Sze Lei Pang, Sri Anusha Matta, Brionden Qi Yu Chua, Huaying Xu, Mariko Siyue Koh, Augustine Tee, John Arputhan, Abisheganaden, Fook Tim Chew, Bruce E Miller, Ruth Tal-Singer, James D. Chalmers, Sanjay H Chotirmall

Co-occurrence analysis relates a macrolide resistome to the pulmonary microbiome in chronic respiratory disease
Jayanth Kumar Narayana (Singapore, Singapore), Alison Dicker, Holly R Keir, Mau Ern Poh, Sze Lei Pang, Sri Anusha Matta, Branden Qi Yu Chua, Huaying Xu, Mariko Siyue Koh, Augustine Tee, John Arputhan, Abisheganaden, Fook Tim Chew, Bruce E Miller, Ruth Tal-Singer, James D. Chalmers, Sanjay H Chotirmall

Prospective evaluation of nanopore-based metagenomic sequencing for rapid detection of bacterial pathogens in patients with lower respiratory tract infections
Shengrui Mu (Beijing, China), Long Hu, Ye Zhang, Yingmei Liu, Xiaojing Cui, Xiaohui Zou, Bin Cao

Discussion

Study Madrid Session 440 09:30 - 10:30
Symposium: Early career member: activities, opportunities and motivations
Early career member session 2020
Aims: To evaluate the structure of and opportunities provided by the ERS; to describe methods of active involvement in the ERS; to present current fellowship offers from the ERS; and to describe critical steps for a successful future career in respiratory research and medicine.
Target audience: Clinical researcher, Medical Student
Chairs: Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

09:30 Introduction
Maxime Patout (Mont-Saint Aignan, France)

09:35 ERS: structure, activities, opportunities: view of the Early Career Members Committee (ECMC)
Maxime Patout (Mont-Saint Aignan, France)

09:45 ERS fellowship: an overview
Louise Donnelly (London, United Kingdom)

10:00 Mina Gaga lecture
Chris Burtin (Diepenbeek, Belgium)

10:05 Motivation and leadership in science
Daniela Gompelmann (Heidelberg, Germany)
### Studio Milan  
**Session 441**  
**State of the art session: Thoracic oncology**

**Aims:** To describe current methods of managing lung cancer and other intrathoracic tumours based on the latest developments in imaging, pathology and molecular biology.

**Disease(s):** Thoracic oncology

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

**Chairs:** Mina Gaga (Athens, Greece), Andrea Aliverti (Milan, Italy)

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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Implementation of lung cancer screening in Europe: the way forward</td>
<td>Emma O’Dowd (Nottingham, United Kingdom)</td>
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<tr>
<td>09:44</td>
<td>Perioperative systemic therapy in resectable lung cancer: from standard operating procedures to immuno-oncology and back</td>
<td>Isabelle Opitz (Zurich, Switzerland)</td>
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<tr>
<td>09:53</td>
<td>Radiotherapy in small cell lung cancer: patient options</td>
<td>Corrine Faivre Finn (Manchester (Greater Manchester), United Kingdom)</td>
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<td>10:02</td>
<td>Update on supportive care</td>
<td>Dragana M. Jovanović (Beograd, Republic of Serbia)</td>
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<tr>
<td>10:11</td>
<td>Thoracic Cancers International COVID-19 Collaboration (TERAVOLT): Impact of type of cancer therapy and COVID therapy on survival</td>
<td>Jan van Meerbeeck (Edegem (Antwerp), Belgium)</td>
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<td>10:20</td>
<td>Discussion and Q &amp; A</td>
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### Studio Paris  
**Session 442**  
**Hot topics: Insights from wearable respiratory sensors and AI**

**Aims:** To present opportunities opened by wearable monitoring of ambulant and (semi-)continuous monitoring, leading to large data streams; to understand these rapidly expanded fields over recent years; to highlight the opportunities and show promising results, e.g. in the fields of sleep apnea and rehabilitation; to emphasize challenges with respect to reliability and interpretability of the results in clinical practice; to describe the current developments around wearable devices and AI and to discuss the opportunities and open challenges; to facilitate exchange and dialogue around these developments in the domain of digital health. To understand how the COVID-19 epidemic is developing, who is at most risk, what is the effect of social distancing, and when and where providers can expect people to require healthcare services.

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

**Tag(s):** Basic science

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physiologist, Scientist (basic, translational)

**Chairs:** Richard Costello (Dublin 9, Ireland), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>AI for respiratory signals</td>
<td>Tom Van Steenkiste (Ghent, Belgium)</td>
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<td>09:45</td>
<td>Health patches for wearable respiration monitoring</td>
<td>Bernard Grundlehner (Eindhoven, Netherlands)</td>
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<td>09:55</td>
<td>Respiration monitoring in COPD patients</td>
<td>Dolores Blanco-Almazán (Barcelona, Spain)</td>
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<tr>
<td>10:05</td>
<td>Surveillance of COVID-19 with a radar app</td>
<td>Niels H. Chavannes (Leiden, Netherlands)</td>
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<td>10:15</td>
<td>Discussion and Q &amp; A</td>
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Grand round: Paediatric grand round

Aims: To describe children with challenging respiratory diseases, including their differential diagnosis, diagnostic tests and optimal clinical care; and to present an update on selected topics in paediatric respiratory medicine.

Disease(s): Paediatric respiratory diseases

Tag(s): Clinical

Target audience: Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Radiologist

Chairs: Ernst Eber (Graz, Austria), Monika Gappa (Düsseldorf, Germany), Andrew Bush (London, United Kingdom)

09:30 Introduction

09:35 A 2-year-old girl with recurrent wheeze
Megan Frohlich (Narara (NSW), Australia)

09:55 Discussion and Q & A

10:05 ChILD: Childhood improbable late diagnoses?
Sormeh Salehian (London, United Kingdom)

10:25 Discussion and Q & A

10:35 What is taking my breath away? A medical detective story
Milanthy Pourier (Nijmegen, Netherlands)

10:55 Discussion and Q & A

11:05 Persistent lung consolidations in a 9-year-old
Laura Petrarca (Roma (RM), Italy)

11:25 Discussion and Q & A

Channel 1

Joint session: What’s new with ground-glass opacities?

A joint ERS/ESTS symposium

Aims: To update knowledge on ground-glass opacities (GGO): 1) natural history driven guidelines; 2) how does artificial intelligence integrate into decision algorithms compared to biopsy; 3) which are the contemporary surgical techniques; 4) how should we consider alternative ablation methods such as stereotactic radiation therapy, percutaneous or transbronchial thermo-ablative procedures.

Disease(s): Thoracic oncology

Method(s): Surgery

Tag(s): Clinical

Target audience: Thoracic surgeon, Radiologist, Physician in Pulmonary Training

Chairs: Nuria Novoa Valentin (Salamanca, Spain), Torsten Gerriet Blum (Berlin, Germany)

10:40 Introduction

10:45 Is this GGO? What does the radiologist suggest
Klaus Loureiro Irion (Salford (Lancashire), United Kingdom)

10:55 Will artificial intelligence replace biopsy?
François Montagne (Rouen, France)

11:10 Problems and solutions in contemporary thoracic surgery
Jean-Marc Baste (Rouen, France)

11:20 What about our challengers?
Isabelle Opitz (Zurich, Switzerland)

11:25 Discussion and Q & A

Channel 2

Oral presentation: From diagnosis to management of pulmonary embolism

Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Pulmonary vascular diseases, Sleep and breathing disorders
Method(s): General respiratory patient care, Imaging, Epidemiology, Physiology, Public health
Chairs: Laurent Bertoletti (Saint Etienne Cedex, France), Sheila Ramjug (Altrincham, United Kingdom)

Channel 3
Session 446 10:40 - 11:40

Oral presentation: Origins of respiratory diseases: do early life exposure and diet really matter?
Abstracts presented in this session are also available as E-posters from 24 August 2020

Method(s): Epidemiology, Pulmonary function testing, Public health
Chairs: Liesbeth Duijts (Rotterdam, Netherlands), Myrofora Goutaki (Bern, Switzerland)
**Channel 4**  
**Session 447**  
**10:40 - 11:40**

**Oral presentation: Diagnostic characteristics and consequences of sleep and breathing disorders**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** Winfried J. Randerath (Solingam, Germany), Maria Bonsignore (Palermo, Italy)

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**4989 Introduction**

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**4990 Effect of simulated obstructive sleep apnea on thoracic fluid volume and lower airway resistance in asthmatics**  
Xiaoshu Cao (Toronto, Canada), T. Douglas Bradley, Swati A. Bhatavadekar, Shumit Saha, Susan M. Tarlo, Matthew Stanbrook, Mark Inman, Azadeh Yadollahi

**4991 Is obstructive sleep apnea a risk factor for the progression of thoracic aortic aneurysm? A prospective cohort study**  
Thomas Gaissl (Zürich, Switzerland), Rejmer Protazy, Maurice Roeder, Patrick Baumgartner, Noriane Sievi, Sandra Siegfried, Simon Stämpfli, Felix Tanner, Malcolm Kohler

**4992 Exertional dyspnea in patients with OSA: pulmonary gas exchange and systemic vascular abnormalities**  
Amany Fathy Elbehairy (Alexandria, Egypt), Nesma M. Geneidy, Mona S. El Hoshy, Mohamed Khaled El Feky, Doha El-Sanhoury, Nashwa Hassan Abd Elwahab

**4993 Effect of obstructive sleep apnoea on cardiovascular outcomes in patients with acute coronary syndrome: a secondary analysis of the RICADSA trial**  
Yuksel Peker (Istanbul, Turkey), Erik Thunström, Helena Glantz, Christine Eulenburg

**4994 Clinical and polysomnographic determinants of REM predominant obstructive sleep apnoea and response to treatment in a revascularized coronary artery disease cohort**  
Baran Balcan (Istanbul, Turkey), Jennifer Newitt, Seyed M Nouraie, Patrick J Strollo, Erik Thunström, Yuksel Peker

**4995 Inspiratory neural drive and muscle activity during sleep in moderate-to-severe COPD**  
Nicolle J. Domnik (Kingston (ON), Canada), Robin Scheeren, Grace Ayoo, Helen Driver, Sophie Crinion, J. Alberto Neder, Denis O'Donnell

**4996 Reference values for mean overnight saturation in sleep apnoea - the European Sleep Apnoea Database (ESADA)**  
Ludger Grote (Göteborg, Sweden), Holger Hein, Ozen K. Basoglu, Ondrej Ludka, Johan Verbraecken, Athanasia Pataka, Stefan Mihai-cut, Pawel Sliwinski, Tarja Saarensanta, Marisa Bonsignore, Ding Zou, Jan Hedner

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**4997 Discussion**

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**Studio Madrid**  
**Session 448**  
**10:40 - 11:40**

**Hot topics: Interstitial lung disease patients in the intensive care unit**

**Aims:** To discuss: 1.) the different phenotypes of interstitial lung diseases (ILD) patients in the intensive care unit (ICU); 2) the importance of appropriate patient selection in determining outcome; 3) the potential prognostic role of computerized tomography (CT) and bronchoalveolar lavage (BAL)/biopsy; 4) the role of extracorporeal membrane oxygenation (ECMO) as bridge to recovery and transplantation; 5) treatment strategies and algorithms

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Pathologist, Radiologist

**Chairs:** Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

**10:40 Introduction**
Selection of ILD patients for ICU and ECMO
Cara Agerstrand (New York, United States of America)

Radiological patterns in ICU: does it matter?
Nicola Sverzellati (Parma (PR), Italy)

Diagnostic procedures in ICU: bronchoscopy and BAL or tissue?
Claudia Ravaglia (Forlì, Italy)

Management of ILD patients in ICU
Maria Kokosi (London, United Kingdom)

Discussion and Q&A

Studio Milan Session 449 10:40 - 12:50
Live from the clinic: Physiology
Body plethysmography and spiroergometry

Aims: Body plethysmography allows health professionals to assess functional residual capacity (FRCpleth) and specific airway resistance (sRaw) as primary measures. In combination with deep expirations and inspirations, total lung capacity (TLC) and residual volume (RV) can also be determined.

Spiroergometry is a tool for qualitative and quantitative assessment of the cardiocirculatory, pulmonary and metabolic response to exercise. The measurement of oxygen consumption, carbon dioxide production, minute ventilation and heart rate provide substantial diagnostic and prognostic information in a wide variety of clinical settings.

This session will provide an overview of when these procedures can be performed (indications and contraindications), will demonstrate how to perform the procedure in the clinic and then discuss how to interpret the results.

Disease(s): Airway diseases Interstitial lung diseases

Method(s): Pulmonary function testing Physiology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Physiologist, Scientist (basic, translational)

Chairs: Mina Gaga (Athens, Greece), Andrea Aliverti (Milan, Italy)

10:40 Introduction to body plethysmography + case description
Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)

10:50 Live case - Obstructive
Frans H.C. De Jongh (Enschede, Netherlands)

11:05 Discussion and Q/A
Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)

11:15 Introduction to spiroergometry + case description
Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)

11:25 Live case - Obstructive
Jean-Martin Wiederseiner (Basel, Switzerland)

11:40 Discussion and Q&A
Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)

11:50 Body plethysmography - case description
Frans H.C. De Jongh (Enschede, Netherlands)

11:55 Live case - Restrictive
Frans H.C. De Jongh (Enschede, Netherlands)

12:10 Discussion & Q/A
Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)

12:20 Spiroergometry - Case description
Jean-Paul Wiederseiner (Basel, Switzerland)

12:25 Live case - Restrictive
Jean-Martin Wiederseiner (Basel, Switzerland)

12:40 Discussion & Q/A
Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)
## Session 450  
### Joint session: Inhalers for COPD and asthma: reviews  
**Aims:** To gain a better understanding of the current and upcoming inhaler technologies. Please note that this session is not CME accredited.  
**Chairs:** Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Richard Costello (Dublin 9, Ireland)  

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<td>10:40</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>10:45</td>
<td>How to select an inhaler?</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<td>10:55</td>
<td>How to monitor and improve inhaler technique?</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
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<td>11:05</td>
<td>How to assess and improve inhaler adherence</td>
<td>David Price (Singapore, Singapore)</td>
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<td>11:15</td>
<td>Discussion and Q &amp; A</td>
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## Channel 1  
### Session 451  
### Joint session: Skills training and assessment in pulmonary medicine and surgery  
**Aims:** To explain a curriculum based training model in different domains such as thoracic ultrasound, endobronchial ultrasound, VATS lung resection; to discuss assessment tools exploring competence in skills; to demonstrate the importance of self-monitoring of the learner with a well-conceived log-book  
**Target audience:** Physician in Pulmonary Training, Thoracic surgeon  
**Chairs:** Gilbert Massard (Esch Sur Alzette, Luxembourg), Lars Konge (Virum, Denmark)  

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<tr>
<td>11:50</td>
<td><strong>Introduction</strong></td>
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<td>11:55</td>
<td>How and why should we train for thoracic ultrasound?</td>
<td>Christian B. Laursen (Odense, Denmark)</td>
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<td>12:05</td>
<td>Which criteria indicate competence for endobronchial ultrasound?</td>
<td>Laurence M.M.J. Crombag (Amsterdam, Netherlands)</td>
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<tr>
<td>12:15</td>
<td>Skills curriculum for VATS lobectomy and segmentectomy</td>
<td>René Horsleben Petersen (Copenhagen, Denmark)</td>
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<td>12:25</td>
<td>Ideal content and evaluation of a trainee’s logbook</td>
<td>Charles-Henri David (Nantes, France)</td>
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<td>12:35</td>
<td>Discussion and Q &amp; A</td>
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## Channel 2  
### Session 452  
### Oral presentation: Elucidating the mechanisms underlying lung repair and exploring therapeutic strategies in vitro  
Abstracts presented in this session are also available as E-posters from 24 August 2020  
**Disease(s):** Airway diseases, Interstitial lung diseases  
**Method(s):** Cell and molecular biology, Physiology  
**Chairs:** Agnes W. Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)  

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<td></td>
<td>Late Breaking Abstract - 3D culturing mesenchymal stem cells in lung extracellular matrix hydrogels affects their homing potential</td>
<td>Jorge Otero (Barcelona, Spain), Bryan Falcons, Hector Sanz, Esther Marhuenda, Irene Mendizabal, Ignacio Cabrera, Isaac Almendros, Daniel Navajas, Ramon Farre</td>
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<td>RANKL contributes to lung tissue repair via promoting type II epithelial cell proliferation</td>
<td>Habibie Habibie (Groningen, Netherlands), Shanshan Song, Kurnia Putri, Carian Boorsma, Robbert Cool, Xinhui Wu, Reinoud Gosens, Yizhou Wang, Wim Quax, Peter Olinga, Corry-Anke Brandsma, Wim Timens, Janette Burgess, Barbro Melgert</td>
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</table>
5030 **Differential effects of pirfenidone and nintedanib on mouse alveolar epithelial organoids**
Loes E. M. Kistemaker (Groningen, Netherlands), Manon Woest, Vasiliki Verschut, Reinoud Gosens

5031 **The matrix-fibroblast interplay contributes to HIF-1 alpha pathway activation: a possible therapeutic target in idiopathic pulmonary fibrosis (IPF)**
Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Liran Dembitz, David Shitrit

5032 **Divergent effects of MIF on lung alveolar repair**
Shanshan Song (Groningue (GR), Netherlands), Habibie Habibie, Laura Flores-Sampedro, Corry-Anke Brandsma, Gerrit J Poelarends, Barbro N Melgert

5033 **HDAC 6 inhibition and deletion reduce COPD symptoms in mice and human airway epithelia**
Muriel Lizé (Wuppertal, Germany), Sigrid Horstmann, Vera Dürstehaus, Cornelia Wiedwald, Carolin Ebert, Annalisa Addante, Carlos Neideck, Stefan Frank, Florian Sohler, Markus Koch

5034 **Endoplasmic reticulum stress implication in senescence of small airway fibroblasts from COPD patients.**
Eva Delbrel (London, United Kingdom), Catherine Wrench, Peter Fenwick, Jonathan Baker, Louise Donnelly, Peter Barnes

5035 **IL33 regulates airway neuronal plasticity in vitro**
Pien A. Goldsteen (Groningen, Netherlands), L. Van Der Koog, L. E. M. Kistemaker, Y. S. Prakash, B. Ditz, M. Van Den Berge, G. H. Koppelman, M. C. Nawijn, A. M. Dolga, R. Gosens

5036 **Discussion**

**Channel 3 Session 453 11:50 - 12:50**

**Oral presentation: Severe asthma phenotypes and outcomes**
Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

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

**Chairs:** Anneke Ten Brinke (Leeuwarden, Netherlands), Andriana Papaioannou (Vrilissia (Athens), Greece)

5037 **Introduction**

5038 **Longitudinal characteristics of the Severe Asthma Research Program (SARP) clinical clusters**
Xingnan Li (Tucson, United States of America), Wendy Moore, Huashi Li, William Busse, Mario Castro, Serpil Erzurum, John Fahy, Benjamin Gaston, Elliot Israel, Nizar Jarjour, Bruce Levy, Sally Wenzel, Deborah Meyers, Eugene Bleecker

5039 **Effect of maintenance oral corticosteroids on risk factors for frequent exacerbations in a severe adult asthma population**
Jieqiong Yang (Glagow, United Kingdom), John Busby, Liam G Heaney, Paul E Pfeffer, David J Jackson, Adel H Mansur, Andrew Menzies-Gow, Salman Siddiqui, Christopher E Brightling, Rob Niven, Mitesh Patel, Neil C Thomson, Rekha Chaudhuri

5040 **Combined assessment of serum eosinophil-derived neurotoxin and YKL-40 may identify asthma-COPD overlap**
Keita Hirai (Shizuoka, Japan), Toshihiro Shirai, Yasuhiro Gon, Shuichiro Maruoka, Kenji Mizumura, Mari Hikichi, Kunihiko Itoh, Shu Hashimoto

5041 **Real world residual disease manifestations after 2-years anti-IL-5 treatment for severe asthma**
Katrien A.B. Eger (s-Gravenhage, Netherlands), Johannes A. Kros, Anneke Ten Brinke, Jacob K. Sont, Elisabeth H. Bel

5042 **Categorization of asthma patients by Global Initiative for Asthma (GINA) 2018 guidelines using a US administrative claims database**
Mario Castro (Kansas City, United States of America), Marko A Mychaskiw, Sangtaeck Lim, Randall Brown, Susan Colilla

5043 **Histopathological comparison of endobronchial biopsies from different pulmonary lobes of severe asthmatic patients**
Meroi Karakioulaki (Thessaloniki, Greece), Triantafyllia Koletsia, Eleni Papakonstantinou, Spasenija Savic, Kathleen Jahn, Michael Tam, Daiana Stolz

5044 **Impact of the eosinophil variability on severe exacerbations in an asthmatic population**
Núria Toledo Pons (Palma De Mallorca, Spain), Job Fm Van Boven, Josep Muncunill Farreyn, Aina Millán Pons, Miguel Román Rodriguez, Bernardo López Andrade, Janwillelm Wh Kocks, Borja García-Cosío Piqueras

5045 **Discussion**

**Channel 4 Session 454 11:50 - 12:50**

**Challenging clinical cases: Thoracic oncology**
Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s): Thoracic oncology

Tag(s): Clinical

Target audience: Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Paediatrician, Pathologist, Nurse, Radiologist, Clinical researcher

Chairs: Torsten Gerriet Blum (Berlin, Germany), Georgia Hardavella (Athens, Greece)

11:50 Introduction

11:55 An extremely rare case of malignant clear cell "Sugar" tumor of the lung
    Marie Drösslerová (Opava, Czech Republic)

12:01 Discussion and Q & A

12:06 An unusual case of lung consolidations, lymph adenopathies and pericardial mass
    Federico Mei (Ancona (AN), Italy)

12:12 Discussion and Q & A

12:17 Solely an eosinophilic pneumonia or something more?
    Gil Gonçalves (Lousada, Portugal)

12:23 Discussion and Q & A

12:28 Unusual cause of hydropneumothorax
    Eserval Rocha Junior (São Paulo, Brazil)

12:34 Discussion and Q & A

12:39 Slow-growing pulmonary nodules
    Caroliny Samary Silva Lobato (Rio De Janeiro (RJ), Brazil)

12:45 Discussion and Q & A

State of the art session: Interstitial lung diseases

Interstitial lung diseases (ILD) and beyond

Aims: Several task forces and position-statement papers are approved, submitted or ongoing in our Assembly 12. This session is going to discuss the major developments in the field through an update of the current TFs. Moreover, a collaboration with ATS of WASOG is ongoing for some of them. It would be exciting to have presented all together in a session with top quality speakers from Europe and beyond. The following projects will be discussed: 1. Diagnosis and treatment of hypersensitivity pneumonitis remain a real challenge; this talk-TF provides an overview of our current understanding and points out new opportunities for further research. 2. Genetics in ILDs: There is a growing body of evidence that both common and rare genetic variants contribute to the development and clinical manifestation of many of the ILDs. Here, we review the current understanding of genetic risk and ILD. 3. Sarcoidosis: or IPF and Lung Cancer: in preparation of a Consensus Statement; the results of the ERS Survey (speakers: Dan Culver or Carlo Vancheri) : in case that Sarcoidosis Diagnostic Guidelines and Treatment TF are presented in a separate section 4. Interventional Pulmonology and ILDs.

Disease(s): Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Radiologist, Thoracic oncologist, Respiratory therapist, Journalist, Thoracic surgeon

Chairs: Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

11:50 Introduction

11:55 Chronic Hypersensitivity pneumonitis: risks factors and therapeutic options
    Athol Wells (London, United Kingdom)

12:05 Genetics in ILDs: what does the future hold?
    Maria Molina Molina (Barcelona, Spain)

12:15 Invasive approaches in the diagnosis of ILDs
    Claudia Ravaglia (Forlì, Italy)
How systemic inflammatory diseases affect the lung
Michael Kreuter (Heidelberg, Germany)

Discussion and Q & A

**Symposium Paris: Digital health: a brave new world?**

**Aims:** To provide clinicians with the patient perspective on the utility of sensors, trackers and monitors; to describe the role of digital technologies in tele-monitoring of asthma patients and the ability to predict asthma exacerbations; to describe recent advances in open platforms for patients and the importance of using connected e-Health to help patients with respiratory diseases live with their conditions; to describe the need to develop digital resources that are accessible and overcome problems of health literacy; and to assess the clinical ability of e-health technologies to help patients manage their pulmonary disorders and the promising role of artificial intelligence in future digital trials.

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

**Method(s):** Public health, Pulmonary function testing, Pulmonary rehabilitation

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory therapist, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

**Chairs:** Richard Costello (Dublin 9, Ireland), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

**Studio Vienna:** Session 457

**Lungs on fire: Paediatric respiratory diseases**

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

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

**Tag(s):** Clinical

**Target audience:** Paediatrician, General practitioner, Respiratory critical care physician, Clinical researcher, Physiologist, Nurse, Thoracic oncologist, Thoracic surgeon, Radiologist, Respiratory physiotherapist

**Chairs:** Ernst Eber (Graz, Austria), Monika Gappa (Düsseldorf, Germany), Andrew Bush (London, United Kingdom)

**Discussants:** Jürg Hammer (Basel, Switzerland)

**Case 1 - Author:** Edith Marije van den Beukel (Netherlands)

**Case 2 - Author:** Anna Louise Nichols (United Kingdom)
**Case 3 - Author: Omer Elneima (United Kingdom)**

Discussion and Q & A

**Case 4 - Author: Sabine M.P.J. Prevaes (Netherlands)**

Discussion and Q & A

**11:50**

Introduction

**11:52**

Presentation of cases by the session facilitator

Jürg Hammer (Basel, Switzerland)

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**13:15-14:15**

**INDUSTRY DEVICE MINI SYMPOSIA**

**SEE PAGE 1**

**13:15-14:15**

**INDUSTRY LUNCHTIME SYMPOSIUM**

**SEE PAGE 1**

**Studio Vienna**

**Session 463**

**14:20 - 14:50**

**Pro/Con debate: Lung cancer screening: is it ready for implementation?**

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

- **14:20** Introduction
- **14:23** Yes
  - Hans-Ulrich Kauczor (Heidelberg, Germany)
- **14:33** No
  - Joachim Ficker (Herzogenaurach, Germany)
- **14:43** Discussion

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**Channel 1**

**Session 464**

**14:30 - 15:30**

**Language session: Russian speaking programme 2020: Part I**

**Chronic obstructive pulmonary disease (a joint ERS/RRS/ARSRM session)**

**Aims:** To provide up-to-date information about COPD, including its epidemiology, pathophysiology, diagnosis, clinical course, treatment and rehabilitation.

This programme will be available in Russian and English.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Medical Student, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Journalist

**Chairs:** Kai Michael Beeh (Wiesbaden, Germany), Alexander G. Chuchalin (Moscow, Russian Federation)

- **14:30** Introduction
- **14:35** Pathomorphology of COPD
  - Maria Samsonova (Moscow, Russian Federation)
- **14:45** Classification of COPD: problems and controversies
  - Konstantinos Kostikas (Ioannina, Greece)
- **14:55** Pulmonary functional diagnosis of COPD
  - Zaurbek Aisanov (Moscow, Russian Federation)
- **15:05** Control of COPD
  - Marc Miravitlles (Barcelona (CT), Spain)
Channel 2  
**Session 465**  
**14:30 - 15:30**

**Oral presentation: Ageing, metabolic syndrome and the lung**  
Abstracts presented in this session are also available as E-posters from 24 August 2020

**Method(s)**: Pulmonary function testing  General respiratory patient care  Cell and molecular biology  Physiology  Epidemiology  Public health

**Chairs**: David M. G. Halpin (Exeter, United Kingdom), Nicolas Kahn (Heidelberg, Germany)

### 5110 Introduction

**5111 Late Breaking Abstract - Tackling the diagnostic challenge of COVID-19 – beyond a ‘false-negative’?**  
Anna Behrendt (London, United Kingdom), Ladan Akbarian-Tefaghi, Lisa Amani, Thomas Burns, Sachan Maruthan, Akhilesh Mulay, Ezgi Ozcan, Rabia Warraich, Stephanie Paget, Amina Jaffer, Hannah Jarvis, Simon Brill, Dean Creer

### 5113 Unrevealed Structural, Functional and Immunological Pulmonary Changes Induced by Metabolic Syndrome in Elderly  
Maysa A. R. Brandao-Rangel (Sao Jose Dos Campos (SP), Brazil), Renilson M Ferreira, Luis Vicente F Oliveira, Claudio R Frison, Rodolfo P Vieira

### 5115 Determination of the phenotypic age of the residents of Mexico City. Effect of accelerated aging on lung function and structure  
Ivette Buendia Roldán (Mexico D.F, Mexico), Rosario Fernandez-Plata, Annie Pardo, Moises Selman

### 5117 Underappreciation of coronary artery disease in patients with COPD  
Christoph Beyer (Innsbruck, Austria), Alex Pizzini, Anna Boehm, Judith Loeffler-Ragg, Guenter Weiss, Gudrun Feuchtner, Axel Bauer, Guy Friedrich, Fabian Plank

### 5119 Discussion

Channel 3  
**Session 466**  
**14:30 - 15:30**

**Oral presentation: Novelties in interventional pulmonology: expanding horizons**  
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Chairs**: Prashant Nemichand Chhajed (Mumbai, India), Felix J.F. Herth (Heidelberg, Germany)

### 5120 Introduction

**5121 Endosonography for left adrenal gland assessment in lung cancer patients - 10 years experience**  
Maciej Gnass (Myslenice, Poland), Stanislaw Orzechowski, Joanna Sola, Monika Lis, Monika Skrobot, Pawel Gwóźdź, Anna Filarecka, Jerzy Soja, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski

**5122 Concordance between pulmonologist performed rapid on-site evaluation (ROSE) and pathological diagnosis in EBUS-TBNA samples**  
Maria Perez Morales (San José del valle, Spain), María Morales González, Cayo Javier García Polo, Enrique José González-Moya Rodríguez De Mondelo, Mercedes Merino Sánchez

**5123 Liquid biopsy in patients with adenocarcinoma - comparison between bronchoalveolar lavage (BAL) and blood samples**  
Nikolay Yanev (Sofia, Bulgaria), Evgeni Mekov, Stoyan Bichev, Alexey Savov, Dimitar Kostadinov
5124 Intratumoral Hyperthermic Chemotherapy Injection in Peripheral Non-Small Cell Lung Cancer; a Pilot Study.
Asem Hewidy (Mansoura, Egypt), Mohamed Tohlob, Lucy Suliman, Ahmed Elmorsy, Mohamed Ibrahim

5125 Re-biopsy in Advanced NSCLC after First Line Treatment: Feasibility and Clinical Utility
Uffe Bodtger (Naestved, Denmark), Malene Stockkel Frank, Asbjørn Høegholm, Inger Merete Stamp, Julie Gehl

5126 A randomised, controlled trial of the use of a dedicated ballooned intercostal drain
Rachel Mercer (Winchester, United Kingdom), Samuel Kemp, Najib Rahman

5127 Bronchoscopic needle based confocal laser endomicroscopy (nCLE) as a real-time detection tool for peripheral lung cancer
Tess Kramer (Amsterdam, Netherlands), Lizzy Wijmans, Martijn De Bruin, Peter Bonta, Jouke Annema

5128 Discussion

Channel 4
Session 467 14:30 - 15:30
Challenging clinical cases: Airway diseases

Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s): Airway diseases

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Respiratory critical care physician, Paediatrician, Respiratory physiotherapist, Radiologist

Chairs: Marco Idzko (Wien, Austria), Lena Uller (Lund, Sweden)

14:30 Introduction

14:35 Expanding the awareness of Alpha-1 antitrypsin deficiency (AATD) to provide a multidisciplinary approach to care
Bruno Balbi (Veruno (NO), Italy)

14:41 Discussion and Q & A

14:46 Tracheal schwannoma - an unexpected cause of chronic cough
Daniela Sofia da Costa Cardoso (Coimbra, Portugal)

14:52 Discussion and Q & A

14:57 The use of imaging to establish the cause of a complex case of respiratory failure
Joe Glover (Coventry, United Kingdom)

15:03 Discussion and Q & A

15:08 Plasmacytoma
Clara Ortega Michel (San Sebastian, Spain)

15:14 Discussion and Q & A

15:19 An abnormal DLCO measurement
Mart N. van der Plas (Monster, Netherlands)

15:25 Discussion and Q & A

Studio Madrid
Session 468 14:30 - 15:30
Symposium: Noninvasive respiratory assistance for acute respiratory failure outside the intensive care unit: a bargain or a burden?

Aims: To describe the advantages and disadvantages of noninvasive respiratory assistance, noninvasive ventilation (NIV) and/or high-flow nasal cannula (HFNC), to patients with acute respiratory failure outside the intensive care unit.

Disease(s): Respiratory critical care

Method(s): Respiratory intensive care

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Respiratory critical care physician, Respiratory physiotherapist, Journalist

Chairs: Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)
### Studio Milan  
**Session 469**  
**14:30 - 15:30**

**Symposium: Does exposure long before conception influence future respiratory health?**  
**Aims:** To describe the effects of exposures, lifestyles and behaviours before conception and in previous generations on asthma and respiratory health, including through multigenerational studies in humans and animals, epigenetic mechanistic research, and understanding susceptible stages during germ cell development.

**Disease(s):** Airway diseases, Paediatric respiratory diseases  
**Tag(s):** Translational  
**Target audience:** Adult pulmonologist/Clinician, General practitioner, Respiratory therapist, Medical Student, Paediatrician, Scientist (basic, translational)  
**Chairs:** Sofia Belo Ravara (Covilhã, Portugal), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom)

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Before the beginning of life: how exposures of fathers and mothers before conception influence respiratory health in their children</td>
<td>Cecilie Svanes (Bergen, Norway)</td>
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<td>14:45</td>
<td>Inter- and trans-generational effects in respiratory disease: epigenetic mechanisms</td>
<td>John Holloway (Southampton (Hampshire), United Kingdom)</td>
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<td>14:55</td>
<td>Multigenerational animal models investigating the effects of exposures across generations.</td>
<td>Susanne Krauss-Etschmann (Borstel, Germany)</td>
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<td>15:05</td>
<td>Causal statistical models for analysis of multi-generation data: An analysis of father’s overweight and offspring height and lung function</td>
<td>Simone Accordini (Verona (VR), Italy)</td>
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<td>15:15</td>
<td>Discussion and Q&amp;A</td>
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### State of Paris  
**Session 470**  
**14:30 - 15:30**

**State of the art session: Respiratory infections**  
**Aims:** To provide updates on clinically important aspects of respiratory infections; and to demonstrate how big data affect current clinical practice.

**Disease(s):** Respiratory infections  
**Tag(s):** Clinical  
**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Scientist (basic, translational)  
**Chairs:** Eva Polverino (Barcelona, Spain)

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<td>14:30</td>
<td>Introduction</td>
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<td>14:35</td>
<td>Pneumonia: strain type, vaccination and antibiotic resistance</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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Studio Vienna

Session 471  15:00 - 15:30

Pro/Con debate: Do I need a robot in my thoracic surgery operating theatre?

**Aims:** To compare robotic surgery and video-assisted surgery for the treatment of chest malignancies such as lung cancer and mediastinal neoplasms; to provide an update on current application of robotic-assisted surgery and a thorough analysis of results in terms of preoperative evaluation and selection of patients, surgical outcome, postoperative length of stay, complication rate, general costs, learning curve, compared to the video-assisted thoracic surgery (VATS).

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

15:00  **Introduction**

15:03  **Yes**
       Gulia Veronesi (Milan, Italy)

15:13  **No**
       René Horsleben Petersen (Copenhagen, Denmark)

15:23  **Discussion**

Channel 1

Session 472  15:40 - 16:40

Language session: Russian speaking programme 2020: Part II

**Chronic obstructive pulmonary disease (a joint ERS/RRS/ARSRM session)**

**Aims:** To describe new findings about COPD, including its epidemiology, pathophysiology, diagnosis, clinical course, treatment and rehabilitation. This programme will be available in Russian and English.

**Disease(s):** Airway diseases

**Tag(s):** Clinical

**Chairs:** David M. G. Halpin (Exeter, United Kingdom), Andrey Belevskiy (Moscow, Russian Federation)

15:40  **Introduction**

15:45  **Clinical diagnosis of COPD**
       Sergey Avdeev (Moscow, Russian Federation)

15:58  **Imaging of COPD**
       Igor Tyurin (Moscow, Russian Federation)

16:11  **Treatment programs in COPD**
       David M. G. Halpin (Exeter, United Kingdom)

16:24  **Discussion and Q & A**

Channel 2

Session 473  15:40 - 16:40

Oral presentation: Novel insights into nursing interventions for managing patients with asthma and COPD

Abstracts presented in this session are also available as E-posters from 24 August 2020
**Disease(s):** Respiratory critical care, Airway diseases

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

**Chairs:** Georgia Narsavage (PUNTA GORDA, United States of America), Andreja Sajnic (Zagreb, Croatia)

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**5167 Introduction**

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**5168 Reasons for inhaled corticosteroid non-adherence disclosed by African American adults during primary care visits for uncontrolled asthma**

Maureen George (New York, United States of America), Ani Bilazarian, Annie Chung, Katherine South, Allison Norful

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**5169 Treatment adherence among adults with asthma - A report from the OLIN asthma cohort**

Sofia Winsa Lindmark (Luleå, Sweden), Ludwig Sandström, Johanna Selberg, Linnea Hedman, Helena Backman, Eva Rönmark, Caroline Stridsman

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**5170 Study to Evaluate Satisfaction with the Inhalation Device Used by Patients with Asthma or Chronic Obstructive Pulmonary Disease and the Association with Adherence and Disease Control**

David Diaz Perez (Güímar, Spain), Jordi Giner Donaire, Carme Hernández, Roberto Cabestre

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**5171 Patients' perspectives on point-of-care diagnostics and treatment by emergency medical technicians in acute COPD exacerbations - a Qualitative study**

Helle Marie Christensen (Tommerup, Denmark), Christian B Laursen, Daniel Wittrock, Gitit Namid, Gitte Jørkensen, Lars B Nielsen, Michael K Sørensen, Caroline Heerema, Ingrid L Titlestad, Annemarie T Lassen, Søren Mikkelsen

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**5172 Ecare-COPD - a massive open online course to empower nurses to enhance self-management skills in patients with COPD**

Miguel Padilha (Porto, Portugal), Paulo Machado, Ana Ribeiro

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**5173 An exploratory qualitative study of patients' and healthcare professionals' views on self-management in bronchiectasis.**

Carol Kelly (Lancashire, United Kingdom), Dave Lynes, Anthony Tsang, Sally Spencer

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**5174 An exploration of dyspnoea and determinants in patients with COPD**

Ellen Margrethe Nerheim (Nittedal, Norway), Gunnar Einvik, Vivi Lycke Christensen, Anne Edvardsen

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**5175 Discussion**

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**Channel 3 Session 474 15:40 - 16:40**

**Oral presentation: Novelties in pulmonary rehabilitation and chronic respiratory care**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** Pulmonary rehabilitation, Palliative care, Epidemiology, General respiratory patient care, Pulmonary function testing

**Chairs:** Claire M. Nolan (Richmond, United Kingdom), Michele Vitacca (Gussago (BS), Italy)

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**5176 Introduction**

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**5177 Clinical efficacy of the COPDnet integrated care model**

Alex J Van 't Hul (Bavel, Netherlands), Noortje Koolen, Philip Van Der Wees, Gert Westert, Jeanine Antons, Marianne De Man, Richard Dekhuijzen, Michel Van Den Heuvel

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**5178 Minimal clinically important difference in Barthel dyspnoea after pulmonary rehabilitation in patients with Chronic Obstructive Pulmonary Disease**

Michele Vitacca (Gussago (BS), Italy), Alberto Malovini, Bruno Balbi, Maria Aliani, Piero Ceriana, Antonio Spanevello, Claudio Fracchia, Mauro Maniscalco, Giacomo Corica, Niccolò Ambrosino, Mara Paneroni

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**5179 Efficiency of home-based pulmonary rehabilitation in adults with asthma**

Ayşe Sena Manzak (istanbul, Turkey), Semiramis Ozyilmaz, Pınar Atağün Güney

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**5180 The evidence of benefits of exercise training: Long-term effects of pulmonary rehabilitation in Idiopathic Pulmonary Fibrosis.**

Maurizia Lanza (Lusciano (CE), Italy), Ilermando Meoli, Pasquale Imitazione, Salvatore Musella, Anna Annunziata, Giuseppe Fiorentino

---

**5181 Incident Depression in Patients with Chronic Obstructive Pulmonary Disease: a UK Population-based Study**

Rayan Siraj (Nottingham, United Kingdom), Tricia Mckeever, Jack Gibson, Charlotte Bolton
Management of chronic breathlessness: a multinational survey of respiratory medicine and palliative care doctors
Caroline Jolley (London, United Kingdom), Małgorzata Krajnik, Nilay Hepgul, Andrew Wilcock, Ewa Jassem, Tomasz Bandurski, Silvia Tanzi, Steffen T Simon, Irene J Higginson

Effects of pulmonary rehabilitation on the sensory and affective dimension of dyspnea
Virginie Molinier (Lodève, France), Nathalie Fernandes, Pauline Caille, François Alexandre, Nelly Heraud

Discussion

Oral presentation: Promising biomarkers for idiopathic interstitial pneumonia
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care, Cell and molecular biology
Chairs: Shinichiro Ohshimo (Hiroshima, Japan), Manuela Funke-Chambour (Bern, Switzerland)

Biomarkers of collagen formation are predictive of IPF progression and death
Nils Hoyer (København NV, Denmark), Henrik Jessen, Sarah Rønnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker

Effects of nintedanib on markers of epithelial damage in subjects with IPF: data from the INMARK trial
Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom), Imre Noth, Moisés Selman, Vincent Cottin, Yasuhiro Nishioka, Jin Woo Song, Antje Prasse, Eric S White, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Susanne Stowasser, Toby M Maher

Association of neoepitopes with disease severity and respiratory hospitalization in patients with IPF
Justin Oldham (Sacramento, United States of America), Jamie L Todd, Megan L Neely, Hillary Mulder, Robert Overton, Hyun J Kim, Mridu Gulati, Thomas B Leonard, Scott M Palmer, Imre Noth, Christian Hesslinger

Changes in biomarkers with nintedanib plus sildenafil in subjects with IPF by presence of emphysema in the INSTAGE trial
Eric S White (Ann Arbor, United States of America), Vincent Cottin, Martin Kolb, Toby M Maher, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Manuel Quaresma, Bruno Crestani

Prognostic value of oxygenated hemoglobin (OxyHem) in fibrosing interstitial lung diseases
Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Michael Kreuter, Nicolas Kahn, Katharina Höger, Finn Moritz Wilkens, Rudolf Jörres, Franziska Trudzinski

Diagnosis of interstitial lung diseases using eNose technology
Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland-Van Der Zee, Marlies Wijsenbeek

Reduced endogenous secretory RAGE in blood and bronchoalveolar lavage fluid is associated with poor prognosis in idiopathic pulmonary fibrosis
Kakuhiro Yamaguchi (Hiroshima, Japan), Hiroshi Iwamoto, Witold Mazur, Shinichiro Miura, Shinjiro Sakamoto, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Shinichiro Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

Diagnosis of interstitial lung diseases using eNose technology
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Reduced endogenous secretory RAGE in blood and bronchoalveolar lavage fluid is associated with poor prognosis in idiopathic pulmonary fibrosis
Kakuhiro Yamaguchi (Hiroshima, Japan), Hiroshi Iwamoto, Witold Mazur, Shinichiro Miura, Shinjiro Sakamoto, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Shinichiro Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

Discussion

Hot topics: Hot topics in intensive care: COVID-19: Lessons learned

Aims: To provide an update on: 1) clinical characteristics of CoVID-19; 2) risks for healthcare workers to become CoVID infected through aerosols and droplet generated during respiratory support; 3) how to prepare the hospital for the next health crisis / pandemic; 4) on impact of CoVID-19 on health care systems in low – middle income countries; 5) how to organize and perform research during a health crisis or pandemic.

Disease(s): Respiratory critical care
Method(s): Respiratory intensive care, General respiratory patient care
Target audience: Physician in Pulmonary Training, Adult pulmonologist/Clinician, Clinical researcher
Chairs: Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)
### Symposium: Improving the delivery of tobacco-use treatment

**Aims:**
To present a comprehensive overview on methods to effectively implement innovative tobacco cessation in healthcare; and to describe effective interventions for integrating tobacco cessation into health systems, including 1) health system engagement and organisational change; 2) use of healthcare providers’ reminder systems, electronic medical records and other information technology tools; 3) delivery of smoking cessation training to healthcare providers; and 4) patient involvement and health education.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory therapist, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist, Thoracic oncologist, Thoracic surgeon

**Chairs:** Sofia Belo Ravara (Covilhã, Portugal), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>15:40</td>
<td>Introduction</td>
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<tr>
<td>15:45</td>
<td>The effectiveness, health gains and barriers of an in-hospital tobacco cessation intervention. The Ottawa model: a successful story.</td>
<td>Sophia Papadakis (Ottawa (ON), Canada)</td>
</tr>
<tr>
<td>15:54</td>
<td>A pragmatic tobacco cessation approach: the UK Very Brief Advice and Brief Support and Treatment models for smokers during routine consultations</td>
<td>Alex Bobak (London, United Kingdom)</td>
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<tr>
<td>16:03</td>
<td>Patient perspective</td>
<td>Isabel Saraiva (Cascais, Portugal)</td>
</tr>
<tr>
<td>16:08</td>
<td>How Austria may benefit from a comprehensive smoke-free policy: promoting population-based smoking cessation</td>
<td>Hanns Moshammer (Wien, Austria)</td>
</tr>
<tr>
<td>16:17</td>
<td>Engaging patients in smoking cessation: from patient involvement to patient health education</td>
<td>Monica Fletcher (Cuckfield, United Kingdom)</td>
</tr>
<tr>
<td>16:26</td>
<td>Discussion and Q &amp; A</td>
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</tbody>
</table>

### Symposium: Community acquired pneumonia – new guidelines, major advances?

**Aims:**
To appraise the recommendations of the new CAP guidelines and revisit important advances and drawbacks of the new recommendations to clinical care; to evaluate established and emerging evidence on complementary diagnostic methods in patients with suspicion of CAP; to revise the management of immunocompromised patients with suspicion of CAP; to discuss alternative diagnosis and management in non-resolving CAP and associated pleural infection.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Physiologist

**Chairs:** Eva Polverino (Barcelona, Spain)

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<th>Time</th>
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<td>15:40</td>
<td>Introduction</td>
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ERS 2020 International Congress

**DETAILED PROGRAMME**

**WEDNESDAY 09 SEPTEMBER, 2020**
## Studio Vienna  Session 479  15:40 - 17:50

**Grand round: Lung cancer grand round**

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>15:45</td>
<td>CAP guidelines 2019 - new and better?</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
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<tr>
<td>15:55</td>
<td>Diagnosing CAP - any advances?</td>
<td>Cristina Prat Aymerich (Badalona (Barcelona), Spain)</td>
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<tr>
<td>16:05</td>
<td>CAP in the immunocompromised - more common than you think</td>
<td>Julio Ramirez (Louisville, United States of America)</td>
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<tr>
<td>16:15</td>
<td>Non-resolving CAP - what to do when antibiotics do not help</td>
<td>Michael Tamm (Basel, Switzerland)</td>
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<tr>
<td>16:25</td>
<td>Discussion and Q &amp; A</td>
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<td>15:40</td>
<td>Introduction</td>
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<tr>
<td>15:45</td>
<td>A patient with a lazarus effect on tyrosine kinase inhibition</td>
<td>Dragana M. Jovanović (Beograd, Republic of Serbia)</td>
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<tr>
<td>16:05</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>16:15</td>
<td>Advanced non small cell lung cancer: an approach fit for the twenties</td>
<td>Wouter H. van Geffen (Leeuwarden, Netherlands)</td>
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<tr>
<td>16:35</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>16:45</td>
<td>A rare case of oligometastatic disease</td>
<td>Georgia Hardavella (Athens, Greece)</td>
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<td>Adenoid cystic carcinoma of the trachea: not so benign</td>
<td>Jo Raskin (Kessel-Lo, Belgium)</td>
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## Channel 1  Session 480  16:50 - 18:00

**Language session: Spanish/Portuguese programme 2020: Part I**

Aims: To describe the impact of environmental pollution on patients with airway diseases.

This programme will be available in Spanish and Portuguese.

<table>
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<td>16:50</td>
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</tbody>
</table>
Environmental pollution: a problem in the Iberian Peninsula: view of the Sociedad Española de Neumología y Cirugía Torácica (SEPAR)
Isabel Ines Urrutia Landa (Bilbao (PV), Spain)

Environmental pollution: a problem in the Iberian Peninsula: view of the Sociedade Portuguesa de Pneumologia (SPP)
António Jorge Correia Gouveia Ferreira (Coimbra, Portugal)

Environmental pollution: a problem in Latin America: view of the Sociedade Brasileira de Pneumologia e Tisiologia (SBPT)
Ubiratan Santos (São Paulo (SP), Brazil)

Environmental pollution: a problem in Latin America: view of the Asociación Latinoamericana de Tórax (ALAT)
Mark Cohen Todd (Guatemala City, Guatemala)

Pollution, air quality and climate change: far beyond wildfire?
José Rogelio Perez-Padilla (México D.F., Mexico)

Discussion and Q&A

Channel 2  
Session 481  
16:50 - 17:50

Oral presentation: Advances in pharmacological treatment of COPD
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases
Method(s): General respiratory patient care  Cell and molecular biology  Pulmonary function testing  Epidemiology  Physiology
Chairs: Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Alberto Papi (Ferrara, Italy)

5229 Introduction

5230 Late Breaking Abstract - COPD exacerbation benefits relative to pneumonia risk with budesonide/glycopyrronium/formoterol metered dose inhaler: analyses from ETHOS
Fernando J. Martinez (New York, United States of America), Klaus F. Rabe, Gary T. Ferguson, Dave Singh, Jadwiga A. Wedziicha, Martin Jenkins, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

5231 Late Breaking Abstract - Real-world evidence of dual bronchodilator therapy using Clinical COPD Questionnaire in 4700 COPD patients
Arschang Valipour (Wien, Austria), Sergey Avdeev, Adam Barczyk, Valentina Bayer, Zvi Fridlender, Marjela Georgieva, Ondřej Kudela, Alexey Medvedchikov, Ramona Miron, Maria Sanzharovskaya, Virginija Šileikienė, Jurij Sorli, Marc Spielmanns, Zsuzsanna Szalai

5232 Prevalence and abundance of selected genes conferring macrolide resistance genes in COPD patients during maintenance treatment with azithromycin
Sander Talman (Etten-Leur, Netherlands), Remco Djamin, Eefje Schrauwen, Christian Von Wintersdorff, Petra Wolffs, Paul Savelkoul, Sevim Uzun, René Kerstens, Menno Van Der Eerden, Jan Kluytmans

5233 The effect of the indicated use of β-blockers on the risk of COPD exacerbations: the Rotterdam Study
Leila Karimi (Rotterdam, Netherlands), Guy Brusselle, Lies Lahousse, Phebe De Nocker, Bruno H Stricker, Katia M C Verhamme

5234 Small airway disease (SAD) is associated with respiratory symptoms and relevant for therapy in early COPD
Frederik Trinkmann (Heidelberg, Germany), Julia Schäfer, Franziska Trudzinski, Joshua Gawlitza, Joachim Saur, Ibrahim Akin, Martin Borggrefe, Thomas Ganslandt, Felix Herth, Roland Buhl

5235 Predictive modelling of COPD exacerbation rates using baseline risk factors
Dave Singh (Manchester, United Kingdom), Fernando J. Martinez, Klaus F. Rabe, John R. Hurst, Mona Bafadhel, Martin Jenkins, Paul Dorinsky, Patrick Darken

5236 Budesonide/formoterol maintenance and reliever therapy versus fluticasone/salmeterol fixed-dose treatment in patients with COPD
Paola Rogliani (Roma (RM), Italy), Josuel Ora, Andrea Girolami, Immacolata Rossi, Mario Cazzola, Luigino Calzetta

5237 Budesonide/formoterol maintenance and reliever therapy versus fluticasone/salmeterol fixed-dose treatment in patients with COPD
Susan Muiser (Groningen, Netherlands), Bart Luijk, Gert-Jan Braunstahl, Irene Heijink, Helen Reddel, Huib Kerstjens, Maarten Van Den Berge
Seasonal variation in COPD exacerbation rates: budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels in the ETHOS trial

Gary T. Ferguson (Farmington Hills, United States of America), Klaus F. Rabe, Fernando J. Martinez, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

Discussion

5238

Channel 3

Session 482 16:50 - 17:50

Oral presentation: Airway development in health and disease

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases

Method(s): Physiology  Cell and molecular biology  General respiratory patient care

Chairs: Rory Morty (Bad Nauheim, Germany), Chair to be confirmed

5240

Introduction

5241

Maternal and perinatal obesity arrests alveolarization and reduces alveolar progenitor cells in offspring

Jaco Selle (Köln, Germany), Katharina Dinger, Hanan Kesler, Theodoros Georgomanolis, Christina Vohlen, Rebecca Wilke, Jörg Dötsch, Miguel A. Alejandre Alcazar

5242

Single cell RNA analysis of cellular niche in normal and impaired late lung development

Ivana Mizikova (Ottawa, Canada), Maria Hurskainen, David Cook, Chanéle Cyr-Depauw, Flore Lesage, Noora Andresson, Emmi Helle, Laurent Renesme, Robert Jankov, Markku Heikinheimo, Barbara Vanderhyden, Bernard Thébaud

5243

Loss of IL-6 promotes alveolar progenitor cells and lung growth in newborn mice exposed to mechanical ventilation

Jasmine Mohr (Köln, Germany), Hanan Kesler, Dharmesh Hirani, Margarete Odenthal, Jörg Dötsch, Miguel A. Alejandre Alcazar

5244

NOVEL KLF4-FOXO1 INTERACTOME IN LUNG FIBROBLASTS: REGULATOR OF MYOFIBROBLASTS IN HYPEROXIA-INDUCED LUNG INJURY

Dharmesh Hirani (Köln, Germany), Manuel Koch, Jasmine Mohr, Christina Vohlen, Sreenath Nayakanti, Christina Grimm, Michal-Ruth Schweiger, Theodoros Georgomanolis, Soni Pullamsetti, Jörg Dötsch, Miguel A. Alejandre Alcazar

5245

Fetal weight is inversely correlated with airway smooth muscle thickness after hypoxia in mice

Kimberley Wang (Southern River, Australia), Peter Noble

5246

Urinary metabolomics identifies molecular signatures associated with bronchopulmonary dysplasia (BPD) and birth-term

Craig Wheelock (Stockholm, Sweden), Isabel Meister, Cristina Gomez, Romanas Chaleckis, Pei Zhang, Marika Ström, Petra Um-Bergström, Eva Broström, Erik Melen, Magnus Sköld, Åsa Wheelock, . The Lunapre Study

5247

Analysis of gene-gene interactions in Buryats adolescents with asthma

Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinchenko

5248

Respiratory outcomes pre and post nusinersen in children with spinal muscular atrophy (SMA) in a tertiary UK paediatric respiratory and neurology centre

Mihaela Diaconu (Sheffield (South Yorkshire), United Kingdom), Chukwudumebi Duru, Kelechi Ugona, Hemant Kulkarni, Min Ong, Kay White

5249

Candidate genes predisposing to the development of asthma in Buryat adolescents

Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinchenko

5250 Discussion

Channel 4

Session 483 16:50 - 17:50

Oral presentation: Possible scenarios in the challenging future of rare diffuse parenchymal lung diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Interstitial lung diseases

Method(s): General respiratory patient care  Cell and molecular biology  Epidemiology  Respiratory intensive care  Surgery  Transplantation

Chairs: Francesco Bonella (Düsseldorf, Germany), Raphaël Borie (Paris, France)

5251 Introduction
The long-term outcome of adult pulmonary Langerhans cell histiocytosis: a national registry-based prospective cohort study
Amira Benattia (Paris (Île-de-France), France), Amira Benattia, Emmanuelle Bugnet, Anouk Walter-Petrich, Gwenaël Lorillon, Sylvie Chevet, Abdellatif Tazi

Bronchoalveolar lavage cytokine profile in patients with Pulmonary Langerhans Cell Histiocytosis differs from other interstitial lung diseases
Diego Castillo Villegas (Barcelona, Spain), Diego Castillo Villegas, Silvia Barril Farre, Paloma Millan Billi, Oriol Sibila Vidal, Alfonso Luque, Paloma Acebo, Sonsoles Hortalano Blanco

Interstitial lung diseases associated with mutations of poly(A)-specific ribonuclease: a multicentric retrospective cohort study

Increase in post-transplant survival and quality of life in pulmonary fibrosis with and without telomere dysfunction
Lurdes Planas Cerezales (Hospitalet de Llobregat (Barcelona), Spain), Elena G Arias-Salgado, Cristina Berastegui Garcia, Ana Montes Worboys, Rafaela Gonzalez Montelongo, Jose M Lorenzo Salazar, Vences Zygmont, Marta Garcia Moyano, Jordi Dorca, Carlos Flores, Rosario Perona, Antonio Román, Maria Molina-Molina

Discussion
Studio Madrid
Session 484
16:50 - 17:50

State of the art session: Respiratory critical care
Diagnostic strategies in acute respiratory failure in the ICU
Aims: To describe the diagnostic approach and differential diagnosis of critically ill patients with acute respiratory failure; and to describe the indications and contraindications for invasive diagnostic techniques in these patients.

Disease(s): Interstitial lung diseases, Respiratory critical care, Respiratory infections
Method(s): Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Patient, Physiologist, Radiologist, Scientist (basic, translational), Respiratory therapist
Chairs: Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

16:50 Introduction
16:55 The role of computed tomography scanning in the differential diagnosis of acute respiratory failure in ventilated patients
Mathias Prokop (Nijmegen, Netherlands)
17:05 Role of BAL / lung biopsy in the diagnosis of acute respiratory failure in intensive care unit patients
Venerino Poletti (Forlì, Italy)
17:15 The future of pulmonary diagnostics in intensive care unit patients
Lieuwe D.J. Bos (Amsterdam, Netherlands)
17:35 Discussion and Q & A

Studio Milan
Session 485
16:50 - 17:50

Hot topics: Air pollution and COVID-19: what we know, what we need to know
Research needs regarding interactions and susceptibility to SARS-CoV-2
Aims: This symposium will present the latest evidence on the potential interaction between exposure to air pollution and COVID-19 risk. It will discuss the research needs in air pollution epidemiology in connection with the pandemic and evaluate the possibilities to use the lockdown as a tool for accountability research, that is use this global 'natural experiment' to evaluate the impact of reduced air pollution levels on health. Finally, the medium- to long-term steps to prevent an anti-environmental backlash in the aftermath of the COVID-19 pandemic will be debated.

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

Method(s): Epidemiology, Public health

Tag(s): Clinical, Basic science, Translational

Target audience: Adult pulmonologist/ Clinician, General practitioner, Respiratory critical care physician, Clinical researcher, Nurse, Paediatrician, Physician in Pulmonary Training, Patient, Medical Student, Respiratory physiotherapist, Respiratory therapist, Scientist (basic, translational)

Chairs: Sofia Belo Ravara (Covilhã, Portugal), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom)

16:50 - 17:00: Introduction

17:00: Is COVID-19 mortality related to long-term air pollution exposure?
Sara De Matteis (London, United Kingdom)

17:10: Short-term interactions of SARS-CoV-2 with the environment (temp, humidity, air pollution, pollen, etc.) - what do we know, what do we need to know?

17:20: Can the Corona lockdown be used for accountability research? Chances, challenges and caveats
Barbara Hoffmann (Düsseldorf, Germany)

17:30: Research needs and opportunities on air pollution and COVID-19
Francesco Forastiere (Roma (RM), Italy)

17:40: Discussion and Q&A

Symposium Paris: The future of bronchiectasis management

Aims: To describe the effects of early life, including demographic, inflammatory and genetic factors, on the development of bronchiectasis; to review recent randomised studies and observational data that are leading to improvements in the management of bronchiectasis; to describe current options for the management of Pseudomonas aeruginosa pulmonary infections in patients with bronchiectasis; and to describe possible future treatments for bronchiectasis in adults.

Disease(s): Airway diseases, Respiratory infections

Tag(s): Clinical

Target audience: Adult pulmonologist/ Clinician, Clinical researcher, Medical Student, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Journalist

Chairs: Eva Polverino (Barcelona, Spain)

16:50 - 17:00: Introduction

16:55: Mucus and microbes: why does bronchiectasis develop?
Kathryn Ramsey (Bern, Switzerland)

17:05: State of the art management of bronchiectasis
Anne O'Donnell (Washington, United States of America)

17:15: Management of chronic airway infection in bronchiectasis
James D. Chalmers (Dundee (Angus), United Kingdom)

17:25: Where do we go from here? Future directions, endpoints and approaches
Francesco Blasi (Milan, Italy)

17:35: Discussion and Q&A

Oral presentation: Recent innovations regarding the mechanisms and treatments of asthma

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Airway diseases

Method(s): General respiratory patient care, Cell and molecular biology, Endoscopy and interventional pulmonology
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<tr>
<td><strong>Introduction</strong></td>
<td><strong>Plasma protein profiles as markers of asthma severity and exposure to oral corticosteroids in U-BIOPRED and BIOAIR</strong></td>
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<td><strong>Anti-IL-5 therapy and the airway microbiome in asthma.</strong></td>
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<td><strong>Continued long-term mepolizumab in severe eosinophilic asthma protects from asthma worsening versus stopping mepolizumab: COMET trial</strong></td>
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<td><strong>Clinical trial: Impact of Probiotical® on asthma control and inflammation</strong></td>
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<td><strong>Effect of dupilumab on oral corticosteroid use in severe asthma patients with improving lung function</strong></td>
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<td><strong>CD6-ALCAM Pathway is Elevated in Patients with Severe Asthma</strong></td>
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<td><strong>The impact of anti-IgE treatment on the airway microbiome in asthma.</strong></td>
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**Channel 3**

Session 488  
18:00 - 19:00

**Oral presentation: Tip the hat to paediatric bronchology**

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Interstitial lung diseases  
**Method(s):** General respiratory patient care, Endoscopy and interventional pulmonology, Imaging, Epidemiology, Cell and molecular biology

**Chairs:** Deborah Snijders (Ponzano Veneto (TV), Italy), Raffaella Nenna (Rome, Italy)

<table>
<thead>
<tr>
<th><strong>Title</strong></th>
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<tr>
<td><strong>Lung ultrasound for the diagnosis of community-acquired pneumonia in children: comparison with chest X-ray.</strong></td>
<td>Silvia Bloise, Domenico P La Regina, Elio Iovine, Cristina Latini, Ambra Nicolai, Luigi Matera, Greta Di Mattia, Laura Petrarca, Raffaella Nenna, Antonella Frassanito, Enrica Mancino, Fabio Midulla</td>
</tr>
<tr>
<td><strong>Lung ultrasound in children with interstitial lung disease: a pilot study.</strong></td>
<td>Celine Delestrain, Guillame Thouvenin, Nicolas Richard, Fouad Madhi, Laura Berdah, Houmam El Jurdi, Annick Clement, Ralph Epaud, Harriet Corvol, Nadia Nathan</td>
</tr>
<tr>
<td><strong>The use of combined endoscopy in a UK paediatric aerodigestive program</strong></td>
<td>Grace Mussell, Gary Wall, Ravi Thesavagayam, David Campbell, Sonal Kansra</td>
</tr>
<tr>
<td><strong>Idiopathic Pulmonary Haemosiderosis: Factors That Effect Prognosis</strong></td>
<td>Mina Gharibzadeh Hizal, Sanem Eryilmaz Polat, Tugba Ramasli Gursoy, Dilber Ademhan Tural, Beste Ozesen, Emiralioglu, Seygi Pekcan, Ayse Tana Aslan, Ebru Yalcin, Deniz Dogru, Ugro Ozcelik, Nural Kiper</td>
</tr>
<tr>
<td><strong>Lung ultrasound (LUS) in bronchiolitis</strong></td>
<td>Domenico Paolo La Regina, Silvia Bloise, Raffaella Nenna, Marco Laudisa, Polidoro, Antonella Frassanito, Ambra Nicolai, Laura Petrarca, Greta Di Mattia, Luigi Matera, Enrica Mancino, Fabio Midulla</td>
</tr>
</tbody>
</table>
Multidisciplinary team meetings dedicated to children interstitial lung diseases (chILD) - a 2-years experience
Nadia Nathan (Paris, France), Alice Hadchouel, Maryem Sari Hassoun, Céline Lustremant, Delphine Habouria, Annick Clement, Ralph Epaud, For The Respirare And Respifil Groups

Implementation of a gene panel for the genetic diagnosis of primary ciliary dyskinesia
Sandra Rovira Amigo (Barcelona, Spain), Noelia Baz Redon, Núria Camats Tarruella, Mónica Fernández Cancio, Idar Paramonov, Silvia Castillo Corullon, MariaCols, Araceli Caballero, Carlos Martin De Vicente, Oscar Asensio, Ana Reula, Amparo Escrivano, Francisco Dasi, Miguel Armengot Carceller, Eduardo Tizzano, Antonio Moreno Galdó

Discussion

Oral presentation: Tuberculosis: part 2
Abstracts presented in this session are also available as E-posters from 24 August 2020
Method(s): Epidemiology Cell and molecular biology General respiratory patient care
Chairs: Cristina Marcela Popa (Bucuresti (Sector 5), Romania), Gunar Günther (Bremgarten bei Bern, Switzerland)

The use of the lytic D29 mycobacteriophages for accelerated determination of the drug sensitivity of tuberculosis mycobacteria to first and second-line anti-TB drugs in clinical isolates obtained after initial cultivation
Mikhail Vladimirsky (Moscow, Russian Federation), Marina Lapenkova, Yulia Alyapkina, Irina Vasilyeva, Greta Arustamova, Pavel Philippov

Genomic factors associated with katG-S315T in Mycobacterium tuberculosis clinical isolates in Vietnam
Naoto Keicho (Tokyo, Japan), Nguyen Thi Le Hang, Minako Hijikata, Shintaro Seto, Nguyen Thi Kieu Diem, Nguyen Thi Thanh Yen, Pham Huu Thuong, Hoang Van Huan, Nguyen Phuong Hoang, Satoshi Mitara, Seiya Kato

Preliminary evaluation of serial interferon-gamma releasing assay testing in NSCLC patients treated with immune checkpoint inhibitors
Kohei Fujita (Kyoto, Japan), Yuki Yamamoto, Osamu Kanai, Misato Okamura, Koichi Nakatani, Tadashi Mio

Ready steady spit: A community based screening for lung tuberculosis amongst high-risk groups in Aalborg, Denmark
Shakil Ahmad Shakar (Hjørring, Denmark), Nina Breinholt Stærke, Mette Christensen, Ulla Møller Weinreich

Mortality and associated factors among drug-resistant tuberculosis patients in Portugal, 2000-2016
Olenn Oliveira (Porto, Portugal), Rita Gao, Teresa Rito, Margarida Correia-Neves, Raquel Duarte

Role of N-acetylcysteine(NAC) in preventing development of anti tuberculosis therapy(ATT) induced liver injury in pulmonary tuberculosis(PTB) patients, a simple randomized single blind clinical trial
Sadaf Ahmed (Karachi, Pakistan), Nisar Ahmed Rao

IP-10 decreases during antituberculous treatment in children with active tuberculosis.
Agnieszka Strzelak (Warszawa, Poland), Anna Komorowska-Piotrowska, Agnieszka Borowa, Maria Krasinska, Wojciech Feleszko, Marek Kulus

Discussion

Symposium Madrid
Session 490 18:00 - 19:00

Symposium: Managing frailty in patients with acute or chronic lung disorders
Aims: To define frailty and its association with various chronic and acute lung disease; to determine the biology underlying frailty in humans and animals; to describe a clear rationale for early mobilisation/rehabilitation in frail patients; and to evaluate rehabilitative interventions to reverse frailty.

Method(s): Airway diseases

Chairs: Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)
### DETAILED PROGRAMME

**Wednesday 09 September, 2020**

#### Studio Milan

**Session 491 18:00 - 19:00**

**Symposium: E-cigarette or Vaping, product use Associated Lung Injury (EVALI)**

**Aims:** To describe the clinical presentation and radiological findings associated with EVALI; to outline the management and outcome of cases with EVALI; to characterize the pathological findings associated with EVALI; to illustrate different heat-not-burn products, their differences and similarities; to estimate the effect of e-cigarettes as a smoking cessation aid; to debate the benefits and drawbacks of e-cigarette strategy as a smoking cessation aid.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Respiratory physiotherapist, Respiratory therapist

**Chairs:** Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Sofia Belo Ravara (Covilhã, Portugal)

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Author/Location</th>
<th>Reference</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Introduction</td>
<td></td>
<td>5311</td>
</tr>
<tr>
<td>18:05</td>
<td>Heated tobacco products - differences and uncertainties</td>
<td>Reto Auer (Bern, Switzerland)</td>
<td>5312</td>
</tr>
<tr>
<td>18:15</td>
<td>E-cigarettes and smoking cessation: the evidence or the non-evidence</td>
<td>Charlotta Pisinger (Frederiksberg, Denmark)</td>
<td>5313</td>
</tr>
<tr>
<td>18:25</td>
<td>Clinical aspects of lung injury associated with e-cigarettes or vaping</td>
<td>Mikhail Kazachkov (New York, United States of America)</td>
<td>5314</td>
</tr>
<tr>
<td>18:35</td>
<td>Pathology of Vaping-Associated Lung Injury</td>
<td>Yasmeen Butt (Phoenix, United States of America)</td>
<td>5315</td>
</tr>
<tr>
<td>18:45</td>
<td>Discussion and Q &amp; A</td>
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<td>5316</td>
</tr>
</tbody>
</table>

#### Studio Vienna

**Session 493 18:00 - 19:00**

**Lungs on fire: Lung cancer?**

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

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

**Tag(s):** Clinical

**Target audience:** Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Clinical researcher, General practitioner, Adult pulmonologist/Clinician, Paediatrician, Radiologist, Nurse, Pathologist

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

**Discussants:** Sam Janes (London, United Kingdom)

<table>
<thead>
<tr>
<th>Case 1 - Author: Kayan Chiang (Hong Kong)</th>
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<tbody>
<tr>
<td>Discussion and Q &amp; A</td>
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</tbody>
</table>

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ERS 2020 International Congress
Language session: Spanish/Portuguese programme 2020: Part II
A joint ERS/ALAT/ASSOBRAFIR/SBPT/SEPAR/SPP session

Aims: To describe the impact of environmental pollution on patients with airway diseases.

Disease(s): Airway diseases

Tag(s): Basic science

Chairs: José Rogelio Perez-Padilla (México D.F, Mexico), Jocimar Avelar Martins (Ponte Nova (MG), Brazil)

18:10 Introduction

18:15 Household pollution and obstructive diseases: asthma and COPD
Jose Miguel Chatkin (Porto Alegre (RS), Brazil)

18:25 Household pollution and lung cancer: beyond tobacco
Maria Torres-Durán (Vigo (Pontevedra), Spain)

18:35 Physical activity in polluted areas
Fabio Pitta (Londrina, Brazil)

18:45 Discussion and Q & A
INDUSTRY SPONSORED SESSIONS

DISCLAIMER: THE PRACTICAL WORKSHOPS, EVENING SYMPOSIA, EVENING MINI-SYMPOSIA, EVENING EXPERT FORUM SESSIONS AND EARLY MORNING SYMPOSIA ARE ORGANISED BY INDUSTRY. YOU CANNOT CLAIM CME CREDITS FOR ATTENDING THESE SESSIONS.
Channel 2. Session 262 08:00 - 09:00

Industry early morning symposium: Treatable Traits: From discussion to action
GlaxoSmithKline

Organised by GlaxoSmithKline

Chairs: Neil C. Barnes (London, United Kingdom), David Leather (London, United Kingdom)

08:00 Welcome and introduction
Neil C. Barnes (London, United Kingdom), David Leather (London, United Kingdom)

08:08 Treatable Traits: Time for change
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

08:22 Treatable Traits: Established and emerging
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

08:36 Treatable Traits: Live it, breathe it
Vanessa M. McDonald (Newcastle (NSW), Australia)

08:50 Panel Q&A, summary and close
Neil C. Barnes (London, United Kingdom), David Leather (London, United Kingdom)

Channel 1. Session 263 08:15 - 09:15

Industry early morning symposium: Relegating OCS to last resort: creating a paradigm shift in severe asthma management
AstraZeneca

Organised by AstraZeneca

Chairs: John Upham (Brisbane (QLD), Australia)

08:15 Welcome and objectives
John Upham (Brisbane (QLD), Australia)

08:20 Inappropriate OCS use in severe asthma: the clinical and economic burden
David Price (Singapore, Singapore)

08:30 OCS and adrenal insufficiency: an endocrinologist perspective
Mark Gurnell (Cambridge, United Kingdom)

08:40 Identifying patients with severe asthma and adopting OCS stewardship
David J Jackson (London, United Kingdom)

08:55 Panel discussion: supporting OCS stewardship by driving behaviour change in severe asthma
John Upham (Brisbane (QLD), Australia), David Price (Singapore, Singapore), Mark Gurnell (Cambridge, United Kingdom), David J Jackson (London, United Kingdom)

09:10 Meeting close
John Upham (Brisbane (QLD), Australia)

09:15 Breakout: interactive expert Q&A session on relegating OCS to last resort in severe asthma
John Upham (Brisbane (QLD), Australia), David Price (Singapore, Singapore), Mark Gurnell (Cambridge, United Kingdom), David J Jackson (London, United Kingdom)

Channel 3. Session 264 08:15 - 09:15

Insmed Ireland Ltd.

Organised by Insmed Ireland Ltd.

Chairs: Gernot G.U. Rohde (Frankfurt am Main, Germany)

08:15 Introduction
Gernot G.U. Rohde (Frankfurt am Main, Germany)

08:20 Who is the NTM patient?
Stefano Aliberti (Milano (MI), Italy)
08:30 NTM: Why is effective therapy so challenging?  
Gernot G.U. Rohde (Frankfurt am Main, Germany)  
3669

08:45 NTM: New guidelines on when and how to treat Mycobacterium avium complex (MAC)  
Christoph Lange (Borstel, Germany)  
3670

09:00 Q&A from the audience  
3671

09:10 Summary and close  
Gernot G.U. Rohde (Frankfurt am Main, Germany)  
3672

13:15 Rethink NTM - insights from NTM clinical experts (lunchtime breakout session)  
Follow up from the early morning symposium  
Gernot G.U. Rohde (Frankfurt am Main, Germany), Michael Loebinger (London, United Kingdom)  
3673

Channel 4. Session 265 08:15 - 09:15

Industry early morning symposium: Management of the endoscopy suite under new parameter – Your Freedom of Choice  
PENTAX Medical  
Organised by PENTAX Medical  

Chairs: Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

08:15 Infection control in endoscopy suite - Opinion exchange  
Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)  
3674

08:40 Single-use and reusable bronchoscope - Opinion exchange  
Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)  
3675

09:00 Single-use bronchoscopes: PENTAX Medical developing the Freedom of Choice  
Harald Huber (, Germany)  
3676

Channel 5. Session 266 08:15 - 09:15

Industry early morning symposium: CRP point-of-care testing – in the time of covid-19 and for the reduction of antibiotic prescribing in acutely exacerbated COPD patients  
Abbott  
Organised by Abbott  

Chairs: Jonathan Cooke (, United Kingdom)

08:15 Welcome and introduction  
Jonathan Cooke (, United Kingdom)  
3677

08:30 Antibiotics for Acute Exacerbations of COPD: PACE Trial Results  
Nicholas Francis (, United Kingdom)  
3678

08:45 Severity assessment and outcome prediction in COVID-19 patients  
Ivan Gentile (, Italy)  
3679

09:00 Panel Discussion and Questions and Answers  
3680

No Room Session 292 13:15 - 14:15

Organised by Aerogen  
Chairs: Antonio Artigas (Sabadell (Barcelona), Spain)

13:20 Aerosol drug delivery to the ventilated patient  
Julien Pottecher (Haguenau, France)  
3883

13:45 Aerosol drug delivery to the non-ventilated patient  
Sundeep Kaul (London, United Kingdom)  
3884

13:45  
3885

14:00  
3886
### No Room  Session 293  13:15 - 14:15

**Industry Device Mini Symposia: Understanding tailored telemonitoring for the efficient management of home-ventilated patients**  
Organised by ResMed  
**Chairs:** OLIVIER SAGNARD (Saint Priest, France)

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Code</th>
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<tbody>
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<td>13:15</td>
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<td>13:30</td>
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<td>14:00</td>
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### No Room  Session 294  13:15 - 14:15

**Industry Device Mini Symposia: Meet the experts for case-based discussion for diagnostic bronchoscopy**  
Organised by Olympus Europa SE & Co. KG  
**Chairs:** Pallav L. Shah (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Case-based discussion: Peripheral Bronchoscopy</td>
<td>Vandana Jeebun (Billingham, United Kingdom)</td>
<td>3891</td>
</tr>
<tr>
<td>13:35</td>
<td>Case-based discussion: EBUS-TBNA</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
<td>3892</td>
</tr>
<tr>
<td>13:55</td>
<td>Case-based discussion: EVIS X1 Diagnostic Bronchoscopy</td>
<td>Ralf Eberhardt (Heidelberg, Germany)</td>
<td>3893</td>
</tr>
</tbody>
</table>

### No Room  Session 295  13:15 - 14:15

**Industry Device Mini Symposia: Advances in transcutaneous CO2 monitoring in the acute and chronic setting: from science to clinical application**  
Organised by Sentec AG  
**Chairs:** Wolfram Windisch (Cologne, Germany), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)

<table>
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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Code</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Introduction and Live Demonstrations</td>
<td>Wolfram Windisch (Cologne, Germany)</td>
<td>3894</td>
</tr>
<tr>
<td>13:30</td>
<td>Rationale and scientific background</td>
<td>Wolfram Windisch (Cologne, Germany)</td>
<td>3895</td>
</tr>
<tr>
<td>13:45</td>
<td>Indications, practical considerations, and pitfalls</td>
<td>João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)</td>
<td>3896</td>
</tr>
<tr>
<td>14:00</td>
<td>Questions from audience to faculty</td>
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</tr>
</tbody>
</table>

### No Room  Session 296  13:15 - 14:15

**Industry Device Mini Symposia: Importance of early wheeze detection in young children to minimize asthma exacerbations**  
Organised by OMRON Healthcare Europe B.V.  
**Chairs:** Kostas Priftis (Haidari (Athens), Greece)

<table>
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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Code</th>
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<tbody>
<tr>
<td>13:15</td>
<td>What is a wheeze and why is it important to confirm it is a wheezing sound?</td>
<td>Kostas Priftis (Haidari (Athens), Greece)</td>
<td>3898</td>
</tr>
<tr>
<td>13:35</td>
<td>The struggle of pediatricians and parents with a wheezing child</td>
<td>Bülent Taner Karadag (Istanbul, Turkey)</td>
<td>3899</td>
</tr>
<tr>
<td>13:50</td>
<td>Introducing WheezeScan: a new tool to help parents confirm a wheeze</td>
<td>Willem van Aalderen (Amsterdam, Netherlands)</td>
<td>3900</td>
</tr>
</tbody>
</table>
### Channel 1.  
**Session 297**  
13:15 - 14:15  

**Industry lunchtime symposium: SABA status quo: state of emergency from policy to patient**  
**AstraZeneca**

**Organised by:** AstraZeneca  
**Chairs:** Paul O'Byrne (Hamilton (ON), Canada)

<table>
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<tr>
<th>Time</th>
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<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>13:15</td>
<td>Chair’s welcome</td>
<td>Paul O'Byrne (Hamilton (ON), Canada)</td>
</tr>
<tr>
<td>13:18</td>
<td>SABA: a never-ending story</td>
<td>Paul O'Byrne (Hamilton (ON), Canada)</td>
</tr>
<tr>
<td>13:25</td>
<td>State of emergency: real-world evidence</td>
<td>Jennifer Quint (Wimbledon, United Kingdom)</td>
</tr>
<tr>
<td>13:40</td>
<td>Overcoming the SABA status quo: a SABA-free department</td>
<td>Luis Nannini (Rosario (Pcia. Santa Fe), Argentina)</td>
</tr>
<tr>
<td>13:50</td>
<td>Activating the reliever reliant patient to overcome SABA reliance</td>
<td>Tonya Winders (Hendersonville, United States of America)</td>
</tr>
<tr>
<td>14:00</td>
<td>From policy to patient: a new chapter</td>
<td>Paul O'Byrne (Hamilton (ON), Canada)</td>
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<tr>
<td>14:05</td>
<td>Audience Q&amp;A</td>
<td>Paul O'Byrne (Hamilton (ON), Canada)</td>
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</tbody>
</table>

**Breakout #1:** how to implement SABA-free care  
Paul O'Byrne (Hamilton (ON), Canada), Luis Nannini (Rosario (Pcia. Santa Fe), Argentina)

**Breakout #2:** helping patients identify SABA over-reliance  
Jennifer Quint (Wimbledon, United Kingdom), Tonya Winders (Hendersonville, United States of America)

### Channel 2.  
**Session 298**  
13:15 - 14:15  

**Industry lunchtime symposium: The Treatment of Severe Respiratory Disorders in Challenging Times**  
**CSL Behring**

**Organised by:** CSL Behring  
**Chairs:** Timm Greulich (Marburg, Germany), Tobias Welte (Hannover, Germany), Marco Idzko (Wien, Austria)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Welcome and introduction</td>
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</tr>
<tr>
<td>13:17</td>
<td>Challenges of Treating Lung Disease caused by COVID-19</td>
<td>Tobias Welte (Hannover, Germany), Michael Larbig (Bern, Switzerland)</td>
</tr>
<tr>
<td>13:32</td>
<td>Treatment of Alpha 1 Antitrypsin Deficiency in Times of COVID-19</td>
<td>Timm Greulich (Marburg, Germany), Maria Campos Miranda Duarte Sucena (Porto, Portugal), Felix J.F.</td>
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<td>Herth (Heidelberg, Germany)</td>
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<tr>
<td>13:45</td>
<td>The Impact of Alpha 1 Antitrypsin Deficiency Therapy on Mortality</td>
<td>Timm Greulich (Marburg, Germany), Alice Turner (Birmingham (West Midlands), United Kingdom), Robert</td>
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<td>A. Sandhaus (Bow Mar, United States of America)</td>
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<tr>
<td>14:00</td>
<td>Development of Specialised Treatments for Severe Respiratory Conditions</td>
<td>Marco Idzko (Wien, Austria), Dave Singh (Manchester, United Kingdom), James D. Chalmers (Dundee</td>
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<td>(Angus), United Kingdom</td>
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<th>Time</th>
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<tbody>
<tr>
<td>14:13</td>
<td>Summary and closing remarks</td>
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</table>
### Channel 3.  
**Session 299  13:15 - 14:15**

**Industry lunchtime symposium: Time for change? Pioneering in IPF management**  
**Organised by Galapagos NV**  
**Chairs:** Toby Maher (St. Albans, United Kingdom)  

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Time for change? Opening address</td>
<td>Toby Maher (St. Albans, United Kingdom)</td>
</tr>
<tr>
<td>13:20</td>
<td>Novel imaging modalities in interstitial lung disease</td>
<td>Paul Ford (Hurstpierpoint (W. Sussex), United Kingdom), Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom)</td>
</tr>
<tr>
<td>13:35</td>
<td>Maintaining the momentum: Ensuring optimal management 6MWT in IPF</td>
<td>Lisa Lancaster (Nashville, United States of America)</td>
</tr>
<tr>
<td>13:50</td>
<td>ISABELA: A landmark study in IPF</td>
<td>Toby Maher (St. Albans, United Kingdom)</td>
</tr>
<tr>
<td>14:05</td>
<td>Q&amp;A and closing remarks</td>
<td>Toby Maher (St. Albans, United Kingdom), Lisa Lancaster (Nashville, United States of America), Paul Ford (Hurstpierpoint (W. Sussex), United Kingdom), Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom)</td>
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</table>

### Channel 5.  
**Session 300  13:15 - 14:15**

**Industry lunchtime symposium: Application of home ventilation in the management of Obesity Hypoventilation in the post COVID era**  
**Organised by Philips**  
**Chairs:** Jean-François Muir (Rouen, France), Nicholas Hart (London, United Kingdom)  

<table>
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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:15</td>
<td>New ways of thinking to home NIV in a post COVID era</td>
<td>Nicholas Hart (London, United Kingdom)</td>
</tr>
<tr>
<td>13:35</td>
<td>Efficacy of an Automated Non-Invasive Ventilation in patients with Obesity Hypoventilation Syndrome</td>
<td>Maxime Patout (Mont-Saint Aignan, France)</td>
</tr>
<tr>
<td>13:55</td>
<td>Use of an Automated Non-Invasive Ventilation approach in obese patients with chronic respiratory failure: Learnings from the OPIP trial</td>
<td>Patrick B. Murphy (Oxted (Surrey), United Kingdom)</td>
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</tbody>
</table>

### Channel 1.  
**Session 337  19:15 - 20:15**

**Industry evening symposium: Early prevention: protecting patients from the consequences of COPD exacerbations**  
**Organised by AstraZeneca**  
**Chairs:** Fernando J. Martinez (New York, United States of America)  

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>19:15</td>
<td>Welcome, introduction and opening remarks</td>
<td>Fernando J. Martinez (New York, United States of America)</td>
</tr>
<tr>
<td>19:20</td>
<td>A journey through the past: the burden associated with the ‘step-wise’ approach to COPD management</td>
<td>John R Hurst (London, United Kingdom)</td>
</tr>
<tr>
<td>19:35</td>
<td>A ‘state-of-the-art’ approach: benefits of fixed-dose combination triple therapies</td>
<td>Fernando J. Martinez (New York, United States of America)</td>
</tr>
<tr>
<td>19:55</td>
<td>Looking to the future: pioneering a proactive approach to optimise management of our patients with COPD</td>
<td>Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
</tbody>
</table>
Audience Q & A and concluding remarks
Fernando J. Martinez (New York, United States of America)

Breakout: interactive Q & A session
Fernando J. Martinez (New York, United States of America), John R Hurst (London, United Kingdom), Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)

Channel 2.
Session 338 19:15 - 20:15
Industry evening symposium: Course and Management of Fibrosing ILDs: What Do the Data Tell Us?
Boehringer Ingelheim International GmbH
Organised by Boehringer Ingelheim International GmbH
Chairs: Luca Richeldi (Roma, Italy)

19:15 Welcome and introduction
Luca Richeldi (Roma, Italy)

19:25 The natural history of fibrosing ILDs
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

19:35 Fibrosing ILDs: splitting and lumping
Elisabetta Renzoni (London, United Kingdom)

19:45 Key insights from the INBUILD trial
Kevin R. Flaherty (Pinckney, United States of America)

20:00 Panel discussion
Luca Richeldi (Roma, Italy)

Channel 3.
Session 339 19:15 - 20:15
Industry evening symposium: Mepolizumab: Precision medicine in eosinophilic inflammation
GlaxoSmithKline
Organised by GlaxoSmithKline
Chairs: Peter H. Howarth (Southampton (Hampshire), United Kingdom)

19:15 Welcome address
Peter H. Howarth (Southampton (Hampshire), United Kingdom)

19:20 Regulating eosinophils through the IL-5 pathway
Arnaud Bourdin (Montpellier Cedex 5, France)

19:30 Targeting eosinophils with mepolizumab for severe eosinophilic asthma
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

19:45 A precise approach to addressing eosinophilic inflammation
David J Jackson (London, United Kingdom), Peter H. Howarth (Southampton (Hampshire), United Kingdom), Arnaud Bourdin (Montpellier Cedex 5, France)

20:05 Closing remarks and thank you
Peter H. Howarth (Southampton (Hampshire), United Kingdom)

20:10 Q&A
Peter H. Howarth (Southampton (Hampshire), United Kingdom)

Channel 4.
Session 340 19:15 - 20:15
Industry evening symposium: Maximising the benefits of inhaled therapies in asthma
Novartis Pharma AG
Organised by Novartis Pharma AG
Chairs: Christine Jenkins (Mc Mahons Point (NSW), Australia)

19:15 Welcome and introduction
Christine Jenkins (Mc Mahons Point (NSW), Australia)
### Industry evening symposium: Dupilumab in Severe Asthma: Review of New Evidence and One Year of Clinical Experience in Europe

**Organised by Sanofi Genzyme and Regeneron**

**Chairs:** Arnaud Bourdin (Montpellier Cedex 5, France)

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>19:15</td>
<td>Opening Remarks</td>
<td>Hans in ’t Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany), Arnaud Bourdin (Montpellier Cedex 5, France)</td>
</tr>
<tr>
<td>19:20</td>
<td>Dupilumab Evidence in Severe Type 2 Asthma: Analysis of High-dose ICS Study Population</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Johann Christian Virchow (Rostock, Germany)</td>
</tr>
<tr>
<td>19:35</td>
<td>Panel Perspectives: Implications for Patient Management</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Johann Christian Virchow (Rostock, Germany), Hans in ’t Veen (Bergschenhoek, Netherlands)</td>
</tr>
<tr>
<td>19:40</td>
<td>Patient Cases Soon After Approval of Dupilumab for Severe Type 2 Asthma</td>
<td>Hans in ’t Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)</td>
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<tr>
<td>19:47</td>
<td>Panel Commentary &amp; Audience Q &amp; A</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Hans in ’t Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)</td>
</tr>
<tr>
<td>19:52</td>
<td>Patient Case After a Year of Experience with Dupilumab for Severe Type 2 Asthma</td>
<td>Hans in ’t Veen (Bergschenhoek, Netherlands)</td>
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<tr>
<td>19:59</td>
<td>Panel Commentary &amp; Audience Q &amp; A</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Hans in ’t Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)</td>
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<tr>
<td>20:04</td>
<td>Final Audience Q &amp; A</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Hans in ’t Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)</td>
</tr>
<tr>
<td>20:13</td>
<td>Closing Remarks</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Hans in ’t Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)</td>
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### Industry evening symposium: Successful inhalation therapy in 2020: patients and inhalers in focus

**Organised by Orion and Menarini**

**Chairs:** Eric D. Bateman (Cape Town, South Africa)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>19:15</td>
<td>Setting the scene</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
</tr>
<tr>
<td>19:20</td>
<td>Why do some patients with COPD benefit from inhaled corticosteroids treatment?</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
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</table>
Key features of inhaler-device technology - what to consider and how to make it work for the patients?
Lauri Lehtimäki (Tampere, Finland)

Trainers and Trainees: how to ensure successful inhalation treatment for patients?
Omar S. Usmani (London, United Kingdom)

Changing perceptions and improving asthma outcomes: spotlight on MART
Eric D. Bateman (Cape Town, South Africa)

Summary & meeting close
Eric D. Bateman (Cape Town, South Africa)

Breakout session: This will be your opportunity to interact with all of our faculty!
Eric D. Bateman (Cape Town, South Africa), Klaus F. Rabe (Kiel, Germany), Lauri Lehtimäki (Tampere, Finland), Omar S. Usmani (London, United Kingdom)

Channel 2. Session 343 20:30 - 21:30
Industry evening symposium: Everything you always wanted to know about COPD
Menarini Group
Organised by Menarini Group
Chairs: Bartolome R. Celli Croquer (Boston, United States of America), Alvar Agusti Garcia-Navarro (Barcelona, Spain)

Introduction
Bartolome R. Celli Croquer (Boston, United States of America)

A journey back to early life
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

Molecules, devices and dosages
Sanjay Sethi (Buffalo, United States of America)

Peeking into the Future: How has COVID19 impacted this view
Bartolome R. Celli Croquer (Boston, United States of America)

Conclusions & Take-Home Messages
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Sanjay Sethi (Buffalo, United States of America), Bartolome R. Celli Croquer (Boston, United States of America)

Channel 3. Session 344 20:30 - 21:30
Industry evening symposium: Elevate the Standard in Endobronchial Lung Cancer Diagnosis and Staging
Olympus Europa SE & Co. KG
Organised by Olympus Europa SE & Co. KG
Chairs: Felix J.F. Herth (Heidelberg, Germany)

"The rise of the nodules" - update and case presentation in interventional Lung Cancer techniques
Felix J.F. Herth (Heidelberg, Germany), Stefano Gasparini (Ancona (AN), Italy)

Expand your possibilities in EBUS-TBNA - how to get the most out of your EBUS-TBNA service
Stefano Gasparini (Ancona (AN), Italy)

Bringing bronchoscopy to the next level with the new EVIS X1 Endoscopy Platform
Felix J.F. Herth (Heidelberg, Germany)

Q&A Session
Felix J.F. Herth (Heidelberg, Germany), Stefano Gasparini (Ancona (AN), Italy)

Channel 4. Session 345 20:30 - 21:30
Industry evening symposium: The new reality: better asthma care supported by digital health solutions
Novartis Pharma AG
Organised by Novartis Pharma AG
Chairs: David Price (Singapore, Singapore)
Welcome and introduction
David Price (Singapore, Singapore)

Digital solutions to real world challenges: addressing unmet needs with digital technology
David Price (Singapore, Singapore)

Digital innovation: supporting the progress of asthma management
Konstantinos Kostikas (Ioannina, Greece)

Digital applications for current and future asthma management
Holger Woehrle (Ulm, Germany)

Panel discussion

Panel discussion, summary and close
David Price (Singapore, Singapore)

Channel 5. Session 346 20:30 - 21:30
Industry evening symposium: What will the decade bring in new treatment options for ILD patients?
F. Hoffmann-La Roche Ltd
Organised by F. Hoffmann-La Roche Ltd
Chairs: Maria Molina Molina (Barcelona, Spain)

Opening remarks
Maria Molina Molina (Barcelona, Spain)

What will ILD management beyond IPF look like?
Anna Maria Hoffmann-Vold (Oslo, Norway), Carlo Vancheri (Catania (CT), Italy)

The promising future of IPF treatment
Vincent Cottin (Lyon, France)

Q&A

Closing remarks
Maria Molina Molina (Barcelona, Spain)

Channel 6. Session 347 20:30 - 21:30
Industry evening symposium: Gram-negative Antibiotic Updates During the COVID Diversion
MSD
Organised by MSD
Chairs: Antoni Torres (Barcelona, Spain), jean-francois timsit (France)

Welcome and Opening Remarks
Jean-Francois Timsit (France), Antoni Torres (Barcelona, Spain)

Antibiotic clinical trial updates in severe respiratory infections
Matteo Bassetti (Italy)

New antibiotics for resistant Gram-negative infections: the positives and the negatives
Andrew Shorr (United States of America)

Bacterial pneumonia complicating COVID-19
Ricard Ferrer (Spain)

Panel Q&A

Closing Remarks
Jean-Francois Timsit (France), Antoni Torres (Barcelona, Spain)
Channel 1.  
**Session 348**  
08:00 - 09:00  

**Industry early morning symposium: Real-world data from patients with ILDs: challenges, learnings and opportunities**  
Boehringer Ingelheim International GmbH  

*Organised by Boehringer Ingelheim International GmbH*

**Chairs:**  
Jürgen Behringer (Niederlauer, Germany)

08:00  Welcome and introduction  
Jürgen Behringer (Niederlauer, Germany)  

08:15  Interpreting real-world data from patients with ILDs  
Jürgen Behringer (Niederlauer, Germany)  

08:25  What have registry data told us about the diagnosis and management of IPF?  
Tamera Corte (Camperdown (NSW), Australia)  

08:40  Patient registries in ILDs: what might they teach us in the future?  
Daniel Culver (Cleveland, United States of America)  

08:50  Panel discussion  
Jürgen Behringer (Niederlauer, Germany)  

Channel 2.  
**Session 349**  
08:15 - 09:15  

**Industry early morning symposium: Nasal High Flow Non Invasive Respiratory Support for COVID-19 Patients**  
Fisher & Paykel Healthcare  

*Organised by Fisher & Paykel Healthcare*

**Chairs:**  
Mark W. Elliott (Leeds (West Yorkshire), United Kingdom), Giacomo Grasselli (Milano (MI), Italy)

08:15  Use of NHF as a treatment of moderate to severe hypoxemic respiratory failure for COVID 19  
Gerard J. Criner (Philadelphia, United States of America)  

08:30  The Italian experience on 670 patients using noninvasive respiratory support outside the ICU during COVID-19  
Stefano Nava (Bologna (BO), Italy)  

08:45  Care of COVID patients in Pulmonology Units - the role of the ICU  
Alexandre Demoule (Paris, France)  

09:00  Panel discussion  

Channel 3.  
**Session 350**  
08:15 - 09:15  

**Industry early morning symposium: Personal strategies to minimise effects of air pollution on respiratory health: advice for providers, patients and the public**  
GSK Consumer Healthcare  

*Organised by GSK Consumer Healthcare*

**Chairs:**  
Christopher Carlsten (Vancouver (BC), Canada)

08:15  Personal strategies to minimise effects of air pollution on respiratory health: advice for providers, patients and the public  
Christopher Carlsten (Vancouver (BC), Canada), Kian Fan Chung (London, United Kingdom), Gary Wong (Shatin, Hong Kong), Sundeep Santosh Salvi (Pune (Maharashtra), India)  

08:45  Q&A and discussion  

Channel 4.  
**Session 351**  
08:15 - 09:15  

**Industry early morning symposium: Severe allergic asthma management in children: the anti-IgE experience**  
Novartis Pharma AG  

*Organised by Novartis Pharma AG*
**Channel 5.**  
**Session 352**  
08:15 - 09:15

*Industry early morning symposium: Successful inhalation therapy in 2020: patients and inhalers in focus*

Organised by Orion and Menarini

**Chairs:** Eric D. Bateman (Cape Town, South Africa)

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<td>08:15</td>
<td>Setting the scene</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>4297</td>
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<tr>
<td>08:20</td>
<td>Why do some patients with COPD benefit from inhaled corticosteroids treatment?</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
<td>4298</td>
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<td>08:30</td>
<td>Key features of inhaler-device technology - what to consider and how to make it work for the patients?</td>
<td>Lauri Lehtimäki (Tampere, Finland)</td>
<td>4299</td>
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<tr>
<td>08:50</td>
<td>Trainers and Trainees: how to ensure successful inhalation treatment for patients?</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
<td>4300</td>
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<tr>
<td>09:00</td>
<td>Changing perceptions and improving asthma outcomes: spotlight on MART</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>4301</td>
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<td>09:10</td>
<td>Summary &amp; meeting close</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>4302</td>
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**No Room**  
**Session 381**  
13:15 - 14:15

*Industry Device Mini Symposia: Meet the experts for case-based discussion for therapeutic bronchoscopy*

Organised by Olympus Europa SE & Co. KG

**Chairs:** Mohammed Munavvar (Preston (Lancashire), United Kingdom)

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<tr>
<td>13:15</td>
<td>Case-based discussion: Valve Therapy for Emphysema</td>
<td>Arschang Valipour (Wien, Austria)</td>
<td>4521</td>
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<tr>
<td>13:35</td>
<td>Case-based discussion: Tracheal Stent Placement</td>
<td>Kaid Darwiche (Essen, Germany)</td>
<td>4522</td>
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<tr>
<td>13:55</td>
<td>Case-based discussion: EVIS X1 Therapeutic Bronchoscopy</td>
<td>Mohammed Munavvar (Preston (Lancashire), United Kingdom)</td>
<td>4523</td>
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**No Room**  
**Session 382**  
13:15 - 14:15

*Industry Device Mini Symposia: Connected solutions for end-to-end sleep apnoea patient remote care management*

Organised by ResMed

**Chairs:**
13:15 From diagnostics to long term adherence: harnessing the power of AirView™ and myAir™ for CPAP sleep apnoea patient care
Greg Sheen, Karen Schofield (Uckfield, United Kingdom)

13:40 Introducing Narval Easy™, the first collaborative platform for MAD-prescribed OSA patient follow-up
Mark Schalabi

14:00  

14:05 Q/A session

No Room  Session 383  13:15 - 14:15

Industry Device Mini Symposia: MI-E Graphics Analysis: Improving the application and effectiveness of cough therapy
Organised by Philips

13:15 An introduction to MI-E graphics analysis
Jon Nilsestuen

13:35 An Examination of Upper Airway Stability in the Bulbar ALS Phenotype
David Troxell (San Luis Obispo, United States of America)

13:45  

14:00  

Channel 1.  Session 384  13:15 - 14:15

Industry lunchtime symposium: Frontiers in eosinophilic diseases
AstraZeneca
Organised by AstraZeneca
Chairs: David J Jackson (London, United Kingdom)

13:15 Welcome and introduction
David J Jackson (London, United Kingdom)

13:20 The role of eosinophils in health and disease development
Florence Roufosse (Brussels, Belgium)

13:35 Eosinophils as the effector cell in chronic airways inflammation
David J Jackson (London, United Kingdom)

13:55 Eosinophils as the effector cell in systemic inflammatory diseases
Praveen Akuthota (San Diego, United States of America)

14:10 Meeting close
David J Jackson (London, United Kingdom)

Breakout: expert Q&A sessions
The role of eosinophils in health and disease development
Eosinophils as the effector cell in chronic airways inflammation

14:15 Eosinophils as the effector cell in systemic inflammatory diseases
David J Jackson (London, United Kingdom), Praveen Akuthota (San Diego, United States of America), Florence Roufosse (Brussels, Belgium)

Channel 2.  Session 385  13:15 - 14:15

Industry lunchtime symposium: New clinical and real-world data to inform treatment choices in COPD: Looking from a patient perspective
GlaxoSmithKline
Organised by GlaxoSmithKline
Chairs: Paul Jones (London, United Kingdom)
13:15 **Chair’s introduction**
Paul Jones (London, United Kingdom)

13:20 **Inhalers? – The critical link between the molecules and patient benefit**
Paul Jones (London, United Kingdom)

13:35 **Improving symptoms**
François Maltais (Québec (QC), Canada)

13:50 **Treatment in the real world**
David M. G. Halpin (Exeter, United Kingdom)

14:10 **Conclusions**
Paul Jones (London, United Kingdom)

**Channel 3.**

**Session 386 13:15 - 14:15**

Industry lunchtime symposium: Biomarkers of Type 2 Inflammation in the Treatment of Severe Asthma: Focus on FeNO
Sanofi Genzyme and Regeneron
Organised by Sanofi Genzyme and Regeneron
**Chairs: Anh Tuan Dinh-Xuan (Paris, France)**

13:15 **Introduction**
Anh Tuan Dinh-Xuan (Paris, France)

13:25 **Role of Nitric Oxide in Type 2 Inflammation and Respiratory Physiology**
Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)

13:35 **Audience Q&A**

13:40 **Utility of FeNO as a Biomarker in Asthma**
Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)

13:50 **Audience Q&A**

13:55 **Application of FeNO in Personalized Management of Patients with Severe Type 2 Asthma**
Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)

14:05 **Audience Q&A**

14:10 **Panel Closing Remarks**
Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)

**Channel 5.**

**Session 387 13:15 - 14:15**

Industry lunchtime symposium: Managing COPD through innovative connected solutions
ResMed
Organised by ResMed

13:15 **Putting patients first: Propeller Health’s asthma and COPD digital health platform.**
Michael Dreher (Aachen, Germany)

13:35 **High Flow Therapy at home: Perspectives for hypoxemic COPD patients.**
Maxime Patout (Mont-Saint Aignan, France)

13:55 **Why use telemonitoring for ventilated patients? A doctor’s perspective.**
Michelle Chatwin (London, United Kingdom)
Channel 1.  Session 422  19:15 - 20:15

Industry evening symposium: Epithelial cytokines in the airway: recent advances in severe asthma
Organised by AstraZeneca
Chairs: Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)

19:15  Co-chairs' welcome
Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)

19:20  Raising the bar for the management of severe asthma: remission as the goal of therapy
Andrew Menzies-Gow (London, United Kingdom)

19:30  The airway epithelium as first line of defence: diverse downstream inflammatory cascades in response to viruses and allergens
Celeste Michala Porsbjerg (Copenhagen, Denmark)

19:40  Triggers of exacerbations: what is driving severe asthma?
Stephanie Korn (Mainz, Germany)

19:50  Recent advances in understanding the role of epithelial cytokines in severe asthma
Jonathan Corren (Los Angeles, United States of America)

20:05  Audience Q & A and concluding remarks
Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)

Channel 2.  Session 423  19:15 - 20:15

Industry evening symposium: Science is no illusion: extrafine combination therapy in asthma and COPD
Organised by Chiesi Farmaceutici S.p.A.
Chairs: Guy Brusselle (Ghent, Belgium)

19:15  Breathing out the sound of small airways
Monica Kraft (Tucson, United States of America)

19:30  New combination therapy in asthma: what is on the horizon?
Johann Christian Virchow (Rostock, Germany)

19:45  Optimization of COPD patients treatment: from clinical trials to real-world evidence
Guy Brusselle (Ghent, Belgium)

20:00  Q & A

Channel 3.  Session 424  19:15 - 20:15

Industry evening symposium: COPD treatment: What is the most important target?
Organised by GlaxoSmithKline
Chairs: Neil C. Barnes (London, United Kingdom)

19:15  Chair's introduction
Neil C. Barnes (London, United Kingdom)
Channel 4.  
Session 425  
19:15 - 20:15
Industry evening symposium: Severe asthma and co-morbid nasal polyposis: a patient-centric approach
Novartis Pharma AG
Organised by Novartis Pharma AG
Chairs: Antonio Nieto (Valencia, Spain)

19:15  Severe asthma and co-morbidities: a focus on anti-IgE
Antonio Nieto (Valencia, Spain)

19:25  Living with asthma and nasal polyposis: patient insight, a pulmonologist perspective, an ENT perspective
Guy F. Joos (Ghent, Belgium)

19:40  Overview of the evidence of anti-IgE in nasal polyposis
Philippe Gevaert (Ghent, Belgium)

19:55  One patient, one airway: A multi-disciplinary approach
Antonio Nieto (Valencia, Spain)

20:05  Live audience Q&A followed by breakout session

Channel 5.  
Session 426  
19:15 - 20:15
Industry evening symposium: COPD and Air Leak treatment - Master Challenging Cases with Spiration Bronchial Valves
Olympus Europa SE & Co. KG
Organised by Olympus Europa SE & Co. KG
Chairs: Pallav L. Shah (London, United Kingdom)

19:15  "The force of bronchoscopy in obstructive lung disease" - update and case presentation in interventional techniques for COPD
Ralf-Harto Hübner (Berlin, Germany)

19:30  Final destination Air Leaks - undiscovered potential in bronchoscopy
Arschang Valipour (Wien, Austria)

19:45  Bringing therapeutic bronchoscopy to the next level with the new EVIS X1 Endoscopy Platform
Pallav L. Shah (London, United Kingdom)

20:00  Q&A Session
Ralf-Harto Hübner (Berlin, Germany), Pallav L. Shah (London, United Kingdom)

Channel 6.  
Session 427  
19:15 - 20:15
Industry evening symposium: Risk management & optimising treatment in Pulmonary Arterial Hypertension
MSD
Organised by MSD
Chairs: Gérald Simonneau (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)
What Does Registry Data Show Us About Risk Management of PAH Patients?
Olivier Sitbon (Le Kremlin-Bicêtre, France)

Practical Approaches to Risk Stratification, How to Manage Intermediate Risk:
• Add-on Therapy
• Optimize the NO Pathway (transition)
Olivier Sitbon (Le Kremlin-Bicêtre, France), Stephan Rosenkranz (Köln, Germany)

REPLACE Study: Replacing PDE5 therapy evaluated against continued standard of care with PDE5
Marius M. Hoeper (Hannover, Germany)

Roundtable Q&A and Discussion
Gérald Simonneau (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)

Channel 1. Session 428 20:30 - 21:30
Industry evening symposium: Supporting the patient pathway in ILD management: from early diagnosis to advanced disease
F. Hoffmann-La Roche Ltd
Organised by F. Hoffmann-La Roche Ltd

Opening remarks
Steven D Nathan (Falls Church, United States of America)

Panel Discussion: How do we ensure early and specific diagnosis of ILDs?
Steven D Nathan (Falls Church, United States of America), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup (Vejle, Denmark), Nicola Sverzellati (Parma (PR), Italy)

Short recap of interview: What are current treatment challenges for non-IPF ILDs?
Michael Kreuter (Heidelberg, Germany)

Short talk: What do we do with ILD patients with more advanced functional impairment?
Steven D Nathan (Falls Church, United States of America), Elisabeth Bendstrup (Vejle, Denmark)

Channel 2. Session 429 20:30 - 21:30
Industry evening symposium: Clinical Considerations for Targeting Type 2 Inflammation in Upper and Lower Airway Diseases
Sanofi Genzyme and Regeneron
Organised by Sanofi Genzyme and Regeneron

Clearing the Air: Understanding the Pathophysiology of Type 2 Inflammatory Airway Diseases
Klaus F. Rabe (Kiel, Germany)

Type 2 Inflammation as a Driving Force for Targeted Treatment of Severe Asthma
Andrea Matucci (Florence, Italy)

Advancing the Clinical Management of CRSwNP Through a Greater Understanding of Type 2 Inflammation
Stella Lee (Pittsburgh, United States of America)

Channel 3. Session 430 20:30 - 21:30
Industry evening symposium: “Mind the gap”: evidence on the treatment of alpha-1 antitrypsin deficiency and unmet needs”
Grifols
Organised by Grifols
Chairs: Claus Vogelmeier (Marburg, Germany)

Welcome and introduction
Claus Vogelmeier (Marburg, Germany)
### New Real World Evidence Study: Comparison of augmentation naïve and augmented patients in AATD related lung disease

Robert A. Sandhaus (Bow Mar, United States of America)

### The future of AATD registry studies: example EARCO and its open questions

Marc Miravitlles (Barcelona (CT), Spain)

### Pulmonary exacerbations and withdrawal of augmentation therapy

Oliver McElvaney (Ireland)

### AATD treatment in current times: questions
Summary and Close

Claus Vogelmeier (Marburg, Germany)

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#### Channel 4. Session 431 20:30 - 21:30

**Industry evening symposium: Waking and walking with COPD: Inhalation matters**

Boehringer Ingelheim International GmbH

Organised by Boehringer Ingelheim International GmbH

**Chairs:** Arschang Valipour (Wien, Austria)

- **20:30** Welcome and introduction
  - Arschang Valipour (Wien, Austria)

- **20:35** Waking and walking with COPD: A day in the life of your patient
  - Mei Lan K. Han (Ann Arbor, United States of America)

- **20:50** Targeting airflow limitation in COPD
  - Omar S. Usmani (London, United Kingdom)

- **21:05** Targeting treatment to individual patients
  - Marc Miravitlles (Barcelona (CT), Spain)

- **21:20** Panel discussion and closing comments
  - Arschang Valipour (Wien, Austria)

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#### Channel 5. Session 432 20:30 - 21:30

**Industry evening symposium: Connected inhalers and communication: The value of emerging technologies in supporting remote management in asthma and COPD care**

Teva Pharmaceuticals Europe B.V.

Organised by Teva Pharmaceuticals Europe B.V.

**Chairs:** Peter J. Barnes (London, United Kingdom)

- **20:30** Welcome and introduction
  - Peter J. Barnes (London, United Kingdom)

- **20:35** The global burden of respiratory care: Why do we need to optimise inhaler use?
  - Peter J. Barnes (London, United Kingdom)

- **20:45** The digital age: Smart inhaler platforms for the management of patients with asthma and COPD
  - Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)

- **21:05** Personalising respiratory care with connected inhaler technologies
  - John Haughney (Glasgow, United Kingdom)

- **21:20** Summary and close
  - Peter J. Barnes (London, United Kingdom)
Industry evening symposium: Management of recurrent pediatric respiratory tract infections and complications: a missed opportunity?
OM Pharma SA
Organised by OM Pharma SA
Chairs: Manuel Soto Martínez (San José, Costa Rica)

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<td>20:30</td>
<td>Welcome and introduction</td>
<td>Manuel Soto Martínez (San José, Costa Rica)</td>
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<tr>
<td>20:35</td>
<td>Respiratory tract infections during childhood and complications: etiopathogenesis and disease burden</td>
<td>Manuel Soto Martínez (San José, Costa Rica)</td>
<td>4890</td>
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<td>20:55</td>
<td>Interactive expert debate on the role of immunotherapy: Rationale vs the evidence - Debate part 1</td>
<td>Wojciech Feleszko (Warszawa, Poland)</td>
<td>4891</td>
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<td>21:01</td>
<td>Interactive expert debate on the role of immunotherapy: Rationale vs the evidence - Debate part 2</td>
<td>Alexander Möller (Zürich, Switzerland)</td>
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<td>21:07</td>
<td>Interactive expert debate on the role of immunotherapy: Rationale vs the evidence - Debate part 3</td>
<td>Wojciech Feleszko (Warszawa, Poland)</td>
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<td>21:13</td>
<td>Interactive expert debate on the role of immunotherapy: Rationale vs the evidence - Debate part 4</td>
<td>Alexander Möller (Zürich, Switzerland)</td>
<td>5385</td>
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<td>21:20</td>
<td>Conclusions and Q&amp;A</td>
<td>Manuel Soto Martínez (San José, Costa Rica), Wojciech Feleszko (Warszawa, Poland), Alexander Möller (Zürich, Switzerland)</td>
<td>4892</td>
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## Industry early morning symposium: What would you recommend today for COPD patients?

**Organised by Boehringer Ingelheim International GmbH**

**Chairs:** Michael Dreher (Aachen, Germany)

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<tr>
<td>08:15</td>
<td>Welcome and introduction</td>
<td>Michael Dreher (Aachen, Germany)</td>
<td>4893</td>
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<tr>
<td>08:20</td>
<td>Implications of new guidelines for ICS use in COPD</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>08:35</td>
<td>Is two really better than one? What the guidelines tells us</td>
<td>Michael Dreher (Aachen, Germany)</td>
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<td>08:50</td>
<td>How can we do the best for our patients?</td>
<td>Arschang Valipour (Wien, Austria)</td>
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<td>09:05</td>
<td>Panel discussion and closing comments</td>
<td>Michael Dreher (Aachen, Germany)</td>
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## Industry early morning symposium: Which target to protect and preserve lungs health?

**Organised by Zambon Spa**

**Chairs:** Alberto Papi (Ferrara, Italy)

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<td>Introduction</td>
<td>Alberto Papi (Ferrara, Italy)</td>
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<tr>
<td>08:20</td>
<td>The role of glutathione homeostasis in chronic obstructive lung disease</td>
<td>Alberto Papi (Ferrara, Italy)</td>
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<td>08:40</td>
<td>The role of pulmonary fibrosis in lung diseases</td>
<td>Luca Richeldi (Roma, Italy)</td>
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<td>08:55</td>
<td>Targeting oxidative stress. Experience during the Covid-19 pandemic, protection and prevention</td>
<td>Joan B Soriano (Madrid, Spain)</td>
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<td>09:10</td>
<td>Chair sum up and conclusion + Q &amp; A session live</td>
<td>Michael Dreher (Aachen, Germany)</td>
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### Industry Device Mini Symposia: Innovations to transform COPD & Asthma patient care

**Organised by ResMed**

**Chairs:**

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<td>Improving clinical outcomes for patients with chronic respiratory conditions: Propeller Health</td>
<td>Lauren Closson, Melissa Williams</td>
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<td>13:40</td>
<td>Bringing High Flow Therapy into the home for COPD patients: Lumis™ HFT</td>
<td>Christian Wabnitz, Xabier Pilar</td>
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<td>14:05</td>
<td>Q/A session</td>
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## Industry lunchtime symposium: Relevant Endpoints in Asthma Patients (REAP)

**Organised by GlaxoSmithKline**

**Chairs:** Kenneth R. Chapman (Toronto (ON), Canada)
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<tr>
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<td><strong>Introduction</strong></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<tr>
<td>13:20</td>
<td><strong>The need for better asthma control: Understanding concepts around underlying inflammation</strong></td>
<td>Alberto Papi (Ferrara, Italy)</td>
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<td>13:35</td>
<td><strong>Evolving data in asthma management</strong></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<td>13:45</td>
<td><strong>Understanding how to achieve better effectiveness in asthma</strong></td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<td>14:00</td>
<td><strong>Panel Discussion</strong></td>
<td>Kenneth R. Chapman (Toronto (ON), Canada), Alberto Papi (Ferrara, Italy), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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### Channel 2. Session 460 13:15 - 14:15

**Industry lunchtime symposium: Remote monitoring of patients with Respiratory Failure receiving Home Mechanical Ventilation**

**Philips**

Organised by Philips

**Chairs:** Begüm Ergan (Izmir, Turkey)

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<td>13:15</td>
<td><strong>Role of a Telemedicine approach in initiating home NIV for COPD patients</strong></td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<td>13:45</td>
<td><strong>How should we telemonitor patients with respiratory failure treated with NIV?</strong></td>
<td>João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)</td>
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### Channel 3. Session 461 13:15 - 14:15

**Industry lunchtime symposium: Severe eosinophilic asthma in the biologic era: From clinical studies to clinical practice**

**Teva Pharmaceuticals Europe B.V.**

Organised by Teva Pharmaceuticals Europe B.V.

**Chairs:** Klaus F. Rabe (Kiel, Germany)

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<td><strong>Welcome and introduction</strong></td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
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<td>13:20</td>
<td><strong>Severe asthma: The story so far</strong></td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
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<td><strong>The pathophysiological landscape of severe eosinophilic asthma</strong></td>
<td>Roland Buhl (Mainz, Germany)</td>
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<td>13:50</td>
<td><strong>Which biologic and why? A closer look at clinical and real-world data</strong></td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<td>14:05</td>
<td><strong>Summary and close</strong></td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
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### Channel 5. Session 462 13:15 - 14:15

**Industry lunchtime symposium: Improving pulmonary fibrosis diagnosis and care in Europe**

**Galapagos & European Idiopathic Pulmonary Fibrosis and Related Disorders Federation (EU-IPFF)**

Organised by Galapagos & European Idiopathic Pulmonary Fibrosis and Related Disorders Federation (EU-IPFF)

**Chairs:** Steve Jones (Cambridge, United Kingdom)

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<td>Liam Galvin (Thurles, Ireland)</td>
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<td>13:20</td>
<td><strong>The path to diagnosis in Europe: Results of the EU-IPFF/Galapagos patient survey</strong></td>
<td>Steve Jones (Cambridge, United Kingdom), Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
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ERS 2020 International Congress

INDUSTRY SPONSORED SESSIONS

WEDNESDAY 09 SEPTEMBER, 2020

**13:35 EU-IPFF Benchmarking Report: IPF care across Europe**
Francesco Bonella (Düsseldorf, Germany), Jean-Michel Fourrier (Lagny sur Marne, France)

**13:50 Educating general practitioners about pulmonary fibrosis: the Royal College of General Practitioners (RCGP) e-learning course**
Helen Parfrey (Cambridge (Cambridgeshire), United Kingdom)

**14:00 Questions & answers Panel discussion**
Steve Jones (Cambridge, United Kingdom), Liam Galvin (Thurles, Ireland), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Francesco Bonella (Düsseldorf, Germany), Jean-Michel Fourrier (Lagny sur Marne, France), Helen Parfrey (Cambridge (Cambridgeshire), United Kingdom)

**14:05 Conclusion and thanks**
Steve Jones (Cambridge, United Kingdom)

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**Channel 1. Session 495 19:15 - 20:15**

Industry evening symposium: Management of Autoimmune Disease-Related ILDs: how can we improve outcomes for patients?
Boehringer Ingelheim International GmbH
Organised by Boehringer Ingelheim International GmbH

**Chairs:** Vincent Cottin (Lyon, France)

**19:15 Welcome and introduction**
Vincent Cottin (Lyon, France)

**19:25 Optimising the monitoring and treatment of SSc-ILD**
Anna Maria Hoffmann-Vold (Oslo, Norway)

**19:40 Pulmonary manifestations of autoimmune diseases beyond SSc - what do we have to consider ?**
Michael Kreuter (Heidelberg, Germany)

**19:55 Panel discussion**
Vincent Cottin (Lyon, France)

---

**Channel 2. Session 496 19:15 - 20:15**

Industry evening symposium: The Lung, at the Heart of Pulmonary Arterial Hypertension
Janssen Pharmaceutica NV
Organised by Janssen Pharmaceutica NV

**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)

**19:15 Welcome and objectives**
Olivier Sitbon (Le Kremlin-Bicêtre, France)

**19:20 The challenging journey to PAH diagnosis: Learnings from two clinical cases of PH**
Alessandra Manes (Bologna (BO), Italy), Isabel Blanco (Barcelona, Spain)

**19:30 Differential diagnosis of PH: Pearls for the pulmonologist**
Sean Gaine (Dublin, Ireland)

**19:40 How to assess risk and optimize treatment in patients with PAH**
Marius M. Hoeper (Hannover, Germany)

**19:55 Panel discussion with audience Q & A**
Alessandra Manes (Bologna (BO), Italy), Isabel Blanco (Barcelona, Spain), Sean Gaine (Dublin, Ireland), Marius M. Hoeper (Hannover, Germany), Olivier Sitbon (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)

**20:10 Key messages and closing remarks**
Marion Delcroix (Leuven, Belgium)

**20:15 Parallel breakout sessions**
Olivier Sitbon (Le Kremlin-Bicêtre, France), Alessandra Manes (Bologna (BO), Italy), Isabel Blanco (Barcelona, Spain), Sean Gaine (Dublin, Ireland), Marius M. Hoeper (Hannover, Germany), Marion Delcroix (Leuven, Belgium)
### Channel 3.  Session 497  19:15 - 20:15

**Industry evening symposium: STAND UP AGAINST COPD: A hit Hard, or hit Right approach?**  
**Menarini group**  
**Organised by** Menarini group  
**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain)

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<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
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<td>Mono or Dual bronchodilators in COPD: Which, Why and When?</td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
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<td>When to use ICS with one or two bronchodilators?</td>
<td>Gerard J. Criner (Philadelphia, United States of America)</td>
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<td>19:50</td>
<td>Fixed Triple Therapy and Mortality: Evidence &amp; Explanation</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
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<td>20:05</td>
<td>Q&amp;A and Chair’s close</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
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### Channel 4.  Session 498  19:15 - 20:15

**Industry evening symposium: Protecting the planet: time for action!**  
**Novartis Pharma AG**  
**Organised by** Novartis Pharma AG  
**Chairs:** Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

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<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<td>19:20</td>
<td>Climate change: its impact on health and disease</td>
<td>Rachel Huxley (Melbourne, Australia)</td>
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<td>19:35</td>
<td>Our patients and our planet: considerations for inhaler choice</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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<td>19:50</td>
<td>Time to focus on green inhalers</td>
<td>Kai Michael Beeh (Wiesbaden, Germany)</td>
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<tr>
<td>20:00</td>
<td>Panel discussion</td>
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<tr>
<td>20:10</td>
<td>Panel discussion, summary and close</td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
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### Channel 5.  Session 499  19:15 - 20:15

**Industry evening symposium: The cystic fibrosis research journey: a blueprint for other respiratory diseases?**  
**Vertex Pharmaceuticals (Europe) Limited**  
**Organised by** Vertex Pharmaceuticals (Europe) Limited  
**Chairs:** Francesco Blasi (Milan, Italy)

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<td>Welcome and introduction: advances in cystic fibrosis (CF) management</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<td>19:20</td>
<td>Three decades of research and innovation: what have we learnt?</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<td>19:30</td>
<td>Cystic fibrosis disease: the evolving natural history</td>
<td>Gregory Sawicki (Boston, United States of America)</td>
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<td>19:45</td>
<td>Cystic fibrosis lungs: measuring what matters</td>
<td>Philipp Latzin (Bern, Switzerland)</td>
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COVID-19 and the journey ahead: windows of opportunity in cystic fibrosis (Panel discussion and Q&A)

Channel 6. Session 500 19:15 - 20:15
Industry evening symposium: Navigating Treatment Decisions for Patients With Uncontrolled Severe Asthma: A New Understanding of Type 2 Inflammation
Sanofi Genzyme and Regeneron
Organised by Sanofi Genzyme and Regeneron

19:15 It’s Out of Control: A Closer Look at Uncontrolled Severe Asthma Patient Burden
David M. G. Halpin (Exeter, United Kingdom)

19:35 Bringing Clarity to a Heterogeneous Patient Population Through Type 2 Inflammation
Oscar Palomares (Madrid, Spain)

19:55 Optimizing Severe Asthma Management: Breathing Life Into Clinical Data for Biologics
Elliot Israel (Boston, United States of America)

Channel 1. Session 501 20:30 - 21:30
Industry evening symposium: Using Syndromic Testing to accelerate patient management decisions in respiratory tract infection suspicions during the COVID-19 crisis
bioMérieux
Organised by bioMérieux

Chairs: Christine Ginocchio (Salt Lake City, United States of America)

20:30 ‘Under siege – management of patients with respiratory tract infections in the ED during the COVID-19 crisis’
Pierre Hausfater (Paris, France)

20:55 ‘Secondary bacterial pneumonias in COVID-19: reality or myth’
David Livermore (Norwich, United Kingdom)

Channel 2. Session 502 20:30 - 21:30
Industry evening symposium: Continuity of care for patients with OSA or Chronic Respiratory Failure post-pandemic
ResMed
Organised by ResMed

20:30 Management of patients with sleep disordered breathing
Arnaud Prigent (Rennes, France)

20:50 Management of non-dependent ventilated patients
Marieke L. Duiverman (Groningen, Netherlands)

21:10 Management of dependent ventilated patients
Jean-Paul Janssens (Genève, Switzerland)

Channel 3. Session 503 20:30 - 21:30
Industry evening symposium: Endobronchial Valves for Successful Treatment of Severe Lung Emphysema: From Optimal Patient Selection to Complications Management
Pulmonx
Organised by Pulmonx

20:30 Clinical Evidence and Best Practice for Endobronchial Valves for Severe Emphysema
Pallav L. Shah (London, United Kingdom)

20:50 Patient Evaluation, Treatment and Post-Treatment Care - Clinical Expectations
Daniela Gompelmann (Heidelberg, Germany)

21:10 Case Studies
Gerard J. Criner (Philadelphia, United States of America)
# Industry evening symposium: Chronic Cough and Chronic Refractory Cough: What Respiratory Physicians Need to Know

**Organised by MSD**

**Chairs:** Alyn Hugh Morice (Cottingham, United Kingdom)

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<td>Alyn Hugh Morice (Cottingham, United Kingdom)</td>
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<td>Defining Chronic Cough and Its Burden of Disease on Patients</td>
<td>Alyn Hugh Morice (Cottingham, United Kingdom)</td>
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<td>20:42</td>
<td>Mechanism of Chronic Cough</td>
<td>Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)</td>
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<td>20:57</td>
<td>How to Diagnose and Manage Chronic Cough and Chronic Refractory Cough</td>
<td>Peter Dicpinigaitis (New York, United States of America)</td>
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<td>21:12</td>
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