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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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</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>00:15</td>
<td>Paediatric concerns due to expanded cannabis use: how does cannabis affect the immature brain of children and teens, who gets addicted and what are the clinical mental health implications?</td>
<td>Speaker to be confirmed</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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<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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</tbody>
</table>

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>00:45</td>
<td>Formative and summative assessment - Theory</td>
<td>Robert Primhak (Sheffield (South Yorkshire), United Kingdom)</td>
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<tr>
<td>00:45</td>
<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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<tr>
<td>00:00</td>
<td>Why should we publish?</td>
<td>Enrico Ruffini (Torino (TO), Italy)</td>
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</tbody>
</table>
### 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

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<th>Title</th>
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<tbody>
<tr>
<td>Why change efforts fail; Personal response to change</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
<td>23</td>
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<tr>
<td>The planned change process: steps and guidelines</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
<td>24</td>
</tr>
<tr>
<td>The leader as a role model; Action planning</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
<td>25</td>
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</table>

### 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, Adult pulmonologist/Clinician, Physician in Pulmonary Training, Medical Student, Respiratory therapist

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<th>Title</th>
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<tbody>
<tr>
<td>What makes a situation challenging? How to implement a communication approach</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
<td>26</td>
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<tr>
<td>How to use a coping technique when communication fails</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
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### 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, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory critical care physician, Respiratory physiotherapist, Radiological therapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

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<tr>
<td>What makes a team effective?</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
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<tr>
<td>Stages of team development: how to lead and participate effectively through emotions, behaviours and tasks</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
<td>29</td>
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<tr>
<td>Stages of team development – Part 2; Action planning</td>
<td>Louellen N. Essex (Wayzata, United States of America)</td>
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### 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.

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### Session 10: Pre-congress content (00:00 - 23:59)

**Pre-congress content**

**Session 10**

**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):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

#### 00:00

**Preterm birth effects on future lung health**

Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)

#### 00:15

**Lifelong effects of genetic lung diseases and their origins in childhood**

Mirjam Stahl (Berlin, Germany)

#### 00:30

**Lifestyle, environmental and occupational effects on the teenage and adult lung**

Sukhwinder Singh Sohal (Launceston (TAS), Australia)

#### 00:45

**The aging lung**

Silke Meiners (München, Germany)

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### Session 11: Pre-congress content (00:00 - 23:59)

**Pre-congress content**

**Session 11**

**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)

#### 00:00

**Cellular mechanisms of paediatric lung disease**

Anne Hilgendorff (München, Germany)

#### 00:15

**Cystic fibrosis fibrosis bronchiectasis**

Keith Grimwood (Gold Coast (QLD), Australia)

#### 00:30

**Non-cystic fibrosis bronchiectasis**

Anne Bernadette Chang (Brisbane (QLD), Australia)
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<tr>
<th>Time</th>
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<tr>
<td>00:00</td>
<td><strong>Pre-congress content</strong> Session 12 00:00 - 23:59</td>
<td><strong>Expert view: Do we really need guidelines?</strong></td>
<td>42</td>
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<td><strong>Aims:</strong> 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.</td>
<td>Theodore Dassios (Beckenham (Kent), United Kingdom)</td>
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<td><strong>Disease(s):</strong> Respiratory critical care</td>
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<td><strong>Method(s):</strong> General respiratory patient care  Respiratory intensive care  Surgery</td>
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<td><strong>Tag(s):</strong> Clinical</td>
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<td><strong>Target audience:</strong> Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Medical Technical Assistant, Nurse, Paediatrician, Patient, Respiratory physiotherapist, Medical Student, Thoracic oncologist, Thoracic surgeon</td>
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<tr>
<td>00:00</td>
<td><strong>Do we really need guidelines?</strong></td>
<td>Nicolas Roche (Paris, France)</td>
<td>44</td>
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<td></td>
<td><strong>Pre-congress content</strong> Session 13 00:00 - 23:59</td>
<td><strong>Expert view: CRISPR for dummies</strong></td>
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<td><strong>Aims:</strong> CRISPR is an acronym for “Clustered Regularly Interspaced Short Palindromic Repeats” and the aims for this session are: to learn the history of CRISPR Cas9; to describe how CRISPR Cas9 works in the lab; to identify different types of CRISPR.</td>
<td>Alen Faiz (Ultimo (NSW), Australia)</td>
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<td><strong>Disease(s):</strong> Respiratory infections  Airway diseases</td>
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<td><strong>Method(s):</strong> Cell and molecular biology  Palliative care</td>
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<td><strong>Tag(s):</strong> Translational</td>
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<td><strong>Target audience:</strong> Clinical researcher, Pathologist, Scientist (basic, translational), Medical Student</td>
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<td>00:00</td>
<td><strong>CRISPR for dummies</strong></td>
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<td><strong>Pre-congress content</strong> Session 14 00:00 - 23:59</td>
<td><strong>Expert view: Microplastic in the lungs: should we be worried?</strong></td>
<td>46</td>
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<td><strong>Aims:</strong> 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.</td>
<td>Frank J. Kelly (London, United Kingdom)</td>
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<td><strong>Disease(s):</strong> Airway diseases</td>
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<td><strong>Method(s):</strong> Epidemiology  Public health</td>
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<td><strong>Tag(s):</strong> Basic science</td>
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<td><strong>Target audience:</strong> Medical Student, Scientist (basic, translational)</td>
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<td>00:00</td>
<td><strong>Microplastic in the lungs</strong></td>
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<td><strong>Pre-congress content</strong> Session 15 00:00 - 23:59</td>
<td><strong>Expert view: Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve</strong></td>
<td>47</td>
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<td><strong>Aims:</strong> This session will identify different techniques of imaging, possible pathological outcome and potential risks.</td>
<td>Georgia Hardavella (Athens, Greece)</td>
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<td><strong>Disease(s):</strong> Thoracic oncology</td>
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<td><strong>Method(s):</strong> Endoscopy and interventional pulmonology  Imaging</td>
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<td><strong>Tag(s):</strong> Clinical</td>
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<td><strong>Target audience:</strong> Thoracic surgeon, Thoracic oncologist, Adult pulmonologist/Clinician, Radiologist, Pathologist</td>
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<tr>
<td>00:00</td>
<td><strong>Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve</strong></td>
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<td>Session 16</td>
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<tr>
<td><strong>Expert view: Transbronchial cryobiopsy in diffuse parenchymal lung diseases</strong></td>
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<td><strong>Aims:</strong> 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).</td>
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<td><strong>Disease(s):</strong> Interstitial lung diseases</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, Pathologist, Physician in Pulmonary Training, Thoracic surgeon</td>
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</table>
| **00:00** Transbronchial cryobiopsy in diffuse parenchymal lung diseases  
Claudia Ravaglia (Forlì, Italy) |

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<tr>
<th>Session 17</th>
<th>00:00 - 23:59</th>
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<tbody>
<tr>
<td><strong>Expert view: The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis</strong></td>
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<td><strong>Aims:</strong> 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.</td>
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<td><strong>Disease(s):</strong> Interstitial lung diseases</td>
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<td><strong>Tag(s):</strong> Clinical</td>
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<tr>
<td><strong>Target audience:</strong> Adult pulmonologist/Clinician, Pathologist, Radiologist</td>
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| **00:00** The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis  
Johny Verschakelen (Leuven, Belgium) |

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<tr>
<th>Session 18</th>
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<tr>
<td><strong>Expert view: Managing stable, severe COPD</strong></td>
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<td><strong>Aims:</strong> 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.</td>
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<td><strong>Disease(s):</strong> Airway diseases, Respiratory critical care</td>
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<td><strong>Method(s):</strong> General respiratory patient care, Palliative care, Pulmonary rehabilitation</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, General practitioner, Medical Student, Respiratory critical care physician, Journalist</td>
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| **00:00** Managing stable, severe COPD  
Leonardo Michele Fabbri (Modena, Italy) |

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<tr>
<th>Session 19</th>
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| **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 |
### Pre-congress content

#### Session 20  
**00:00 - 23:59**

**Expert view: Diagnosis and management of chronic fibrotic hypersensitivity pneumonitis**  

**Aims:** 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.

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

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

**Tag(s):** Translational  

**Target audience:** Clinical researcher, General practitioner, Pathologist, Radiologist, Respiratory critical care physician, Scientist (basic, translational)

**00:00**  
**Diagnosis and management of chronic fibrotic hypersensitivity pneumonitis**  
Wim A Wuyts (Leuven, Belgium)

#### Session 21  
**00:00 - 23:59**

**Expert view: Tips and pitfalls of cardiopulmonary exercise testing**  

**Aims:** 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.

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

**Method(s):** Physiology  

**Tag(s):** Clinical  

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist

**00:00**  
**Tips and pitfalls of cardiopulmonary exercise testing**  
Paolo Palange (Rome, Italy)

#### Session 22  
**00:00 - 23:59**

**Expert view: Successfully managing adolescent and young adult patients with asthma**  

**Aims:** 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.

**Disease(s):** Airway diseases  

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

**Tag(s):** Clinical  

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory physiotherapist, Journalist

**00:00**  
**Successfully managing adolescent and young adult patients with asthma**  
Graham Roberts (Southampton (Hampshire), United Kingdom)

#### 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.

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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

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

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

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.

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)
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 describe how AI improves doctors’ ability to interpret respiratory symptoms accurately and make a correct diagnosis. It will also identify research that proves AI computers are more consistent and accurate in interpreting pulmonary function test results and suggesting diagnoses than lung specialists.

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

**Tag(s):** Translational

**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.

**Disease(s):** Interstitial lung diseases, Respiratory infections

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Pathologist, Patient, Radiologist, Scientist (basic, translational)

00:00
**Common variable immunodeficiency (CVID)**
Klaus Warnatz (Freiburg, Germany)

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.
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

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

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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)

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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)

PA66 To use or not to use - a qualitative analysis of factors associated with using or not using an electronic health (eHealth) tool among people with COPD
Sarah Marklund (Umeå, Sweden), Malin Tistad, Sara Lundell, Lina Östrand, Ann Sörlin, Carina Boström, Karin Wadell, André Nyberg

PA67 Feasibility of an eHealth tool for exercise training at home for people with chronic obstructive pulmonary disease and long-term oxygen treatment
Pernilla Sönnerfors (Stockholm, Sweden), Karin Wadell, Michael Runold, André Nyberg, Alexandra Halvarsson

PA68 Perceptions of the use of telemonitoring. A qualitative study in patients with chronic obstructive pulmonary disease.
Sara Lundell (Umeå, Sweden), Mari Andersson, Åsa Holmner, Karin Wadell

PA69 Self-management support for asthma and airways disease - what do patients want?
Nicola Pott (Stockport, United Kingdom), Claire Somerton, Rebecca Gymer, Stephen J Fowler

PA70 Assessing the caregiving experience in COPD: content validity of the Zarit Burden Interview and Caregiver Reaction Assessment
Anne-Marie Selzler (Toronto, Canada), Alda Margues, Roger Goldstein, Dina Brooks, Joana Cruz
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<td>PA71</td>
<td>Pulmonary Rehabilitation (PR) in Cheshire and Merseyside (C &amp; M)</td>
<td>Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Dennis Wat, Sarah Sibley</td>
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<td>PA72</td>
<td>Are there common characteristics between people who drop out of Pulmonary Rehabilitation (PR) at Royal Berkshire Hospital (RBH)?</td>
<td>Francesca Knight (Reading, United Kingdom), Laura Cornish, Catherine Thomas</td>
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<td>PA73</td>
<td>Knowledge, attitudes and practices survey of pulmonary rehabilitation among chest physicians: a first national survey in Lebanon</td>
<td>Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova</td>
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<td>PA74</td>
<td>Disease-specific knowledge in patients with COPD. A qualitative study before entering an education program</td>
<td>Eleni Kortianou (Athens (Alimos), Greece), Maria Siatraka, Aspasia Mavronasou, Andreas Asimakos, Nikolaos G. Koulouris</td>
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<td>PA75</td>
<td>An educational program can improve specific to medication knowledge in patients with COPD</td>
<td>Eleni Kortianou (Athens (Alimos), Greece), Aspasia Mavronasou, Maria Koulopoulou, Maria Psylla, Andreas Asimakos, Nikolaos G. Koulouris</td>
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<td>PA76</td>
<td>The educational needs of people with bronchiectasis in a pulmonary rehabilitation setting</td>
<td>Annamarie Lee (Melbourne (VIC), Australia), Rebecca Smith, Christian Oasdkin, Lucy Burr, Anne Chang, Chien-Li Holmes-Liew, Lata Jayaram, Paul King, Peter Middleton, Lucy Morgan, Tu Nguyen, Daniel Smith, Emna Stroil-Salama, Rachel Thomson, Justin Waring, Grant Waterer, Conroy Wong, Rachel Mcallear</td>
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<td>PA77</td>
<td>Patients' perspectives on exposure to environmental contaminants: a missing piece in pulmonary rehabilitation?</td>
<td>Sara Souto-Miranda (Aveiro, Portugal), Sara Melo-Dias, Carla Valente, Célia Freitas, Ana Margarida Sousa, Ana Catarina Sousa, Alda Marques</td>
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<td>PA78</td>
<td>Conditions for COPD management in municipal healthcare - healthcare professionals' perspective. A qualitative study.</td>
<td>Sara Lundell (Umeå, Sweden), Ulla-Maija Pesola, André Nyberg, Karin Wadell</td>
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<td>PA79</td>
<td>SingStrong: Community-based group singing for better lung health in COPD</td>
<td>Roisin Cahalan (Limerick (Co Limerick), Ireland), James Green, Ciara Meade</td>
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**Pre-congress content**

**Session 35**

**00:00 - 23:59**

**E-poster session:** Reviews and novel insights into pulmonary rehabilitation

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

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

**Chairs:** Bita Hajian (Haelen, Netherlands), Michael Furian (Zürich, Switzerland)

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<td>Home-based exercise training (HET) post-hospitalisation for acute exacerbation of COPD (AECOPD) - a mixed-method systematic review</td>
<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>PA81</td>
<td>Palliative oxygen for the relief of breathlessness: a qualitative meta-synthesis</td>
<td>Slavica Kochovska (Sydney, Australia), Diana Ferreira, Maja Garcia, Jane Phillips, David Currow</td>
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<td>PA82</td>
<td>Efficacy comparison of inpatient vs outpatient pulmonary rehabilitation: a Systematic Review</td>
<td>Virginie Molinier (Lodève, France), Nelly Heraud, François Alexandre</td>
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<td>PA83</td>
<td>The role of neuromuscular electrostimulation in patients with advanced COPD included in pulmonary rehabilitation programs</td>
<td>Emanuela Tudorache (Timisoara (Timis), Romania), Daniel Traila, Monica Marc, Camelia Pescaru, Patricia Hoogle, Noemi Porojan Suppini, Ariadna Petronela Fildan, Ovidiu Fira Mudinescu, Cristian Oancea</td>
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<td>PA84</td>
<td>Internet access and usage in patients with chronic respiratory disease</td>
<td>Oliver Polgar (Harrow, United Kingdom), Claire M Nolan, Ruth E Barker, Suhani Patel, Jessica A Walsh, William D-C Man</td>
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<td>PA85</td>
<td>The Role of Diet in COPD Rehabilitation</td>
<td>Katalin Csicsely Károlyiné (Budapest, Hungary), Mari Kerti, Krisztina Tóth, János Varga</td>
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<td>PA86</td>
<td>Association between Frailty Index and BODE index with lung function and mortality in COPD</td>
<td>Panaioitis Finamore (Roma (RM), Italy), Simone Scarlata, Vittorio Cardaci, Francesco D’Alessandro, Raffaele Antonelli Incalzi, Matteo Cesari</td>
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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 Michalečková (Holesov, Czech Republic), Katerina Neumannova, Pavla Horova, Martin Dvorcek, Eva Volakova, Jaromír 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 Domínguez 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

Point-of-care transcranial doppler in chronic obstructive pulmonary disease stable patients
ROOSEVELT SANTOS NUNES (RIBEIRAO PRETO, Brazil), Andréa Cristina Meneghini, Elizabet Sobrani, Elcio Dos Santos Oliveira Vianna

Postural sway and chest wall kinematics during inspiratory loading in individuals with COPD.
Jadranka Spahija (Montréal (QC), Canada), Ahmed Iméaoudane, 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 Özarı Yıldırım (Istanbul, Turkey), Ipek Özmen, Meral Karaşş, 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, Marta Sandemetrio, Marta Acosta Dávila, Cristina De Juan Izquierdo, Alberto Herrejón Silvestre, Eva Martinez-Moragón

DOES THE BENEFIT FROM PULMONARY REHABILITATION DIFFER BETWEEN PHENOTYPES IN COPD?
Gülru Erbay Polat (Izmir, Turkey), Melih Büyükşirin, Hülya Şahin, Aysu Ayrancı, Gülistan Karadeniz, Filiz Gül dával, Seher Susam, Fatma Üçsular, Ceyda Anar, Onur Sünecli

The effect of inspiratory muscle training in interstitial lung diseases
Mária Kerti (Budapest, Hungary), Beatrix Bayer, Blanka Tóth, János Tamás Varga

Pre-congress content

**PA97**
**Adapted physical activity intervention for improvement of quality of life in patients with idiopathic pulmonary fibrosis**
Sergio Calvache Castillo (Jaen, Spain), Susana Herrera Lara, Marta Sandemetrio, Marta Acosta Dávila, Cristina De Juan Izquierdo, Alberto Herrejón Silvestre, Eva Martinez-Moragón

**PA98**
**DOES THE BENEFIT FROM PULMONARY REHABILITATION DIFFER BETWEEN PHENOTYPES IN COPD?**
Gülru Erbay Polat (Izmir, Turkey), Melih Büyükşirin, Hülya Şahin, Aysu Ayrancı, Gülistan Karadeniz, Filiz Gül dával, Seher Susam, Fatma Üçsular, Ceyda Anar, Onur Sünecli

**PA99**
**The effect of inspiratory muscle training in interstitial lung diseases**
Mária Kerti (Budapest, Hungary), Beatrix Bayer, Blanka Tóth, János Tamás Varga

**PA100**
**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

**PA101**
**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
PA102  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

PA103  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-Ill Kwang, Chin Kook Rhee, Kwang Hwa Yoo, Hee Soon Chung, Deog Kyeom Kim

PA104  SERUM β2-MICROGLOBULIN CORRELATES WITH COPD OUTCOMES AND PREDICTS FUTURE HOSPITALIZATION.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Armando Raúl Guerra, Mayte García-Enzueta, Juan Agüero, Sandra Tello, Marta Cristeto, Joy Osorio, Sheila Izquierdo, Guido Andretta, Karla Fabiola Escobar

PA105  Influence of pneumonia on the survival of patients with COPD
Christian Reynaldo Castro Riera (Madrid, Spain), Zichen Ji, Julio Hernández Vázquez, José María Bellón Cano, Virginia Gallo González, Beatriz Recio Moreno, Alicia Cerezo Lajas, Luis Puente Maestu, Javier De Miguel Diez

PA106  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

PA107  Automated telephone message service for people with uncontrolled asthma or COPD
Jayne Longstaff (Portsmouth (Hampshire), United Kingdom), Milan Chauhan, Ruth De Vos, Tom Brown, Richard Jackson, Peter Hayward, Hitasha Rupani, Anoop Chauhan

PA108  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 Aizpírri, Jose María Quintana, Cristobal Esteban

PA109  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

PA110  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. Jöres, Claus Vogelmeier, Robert Bals

PA111  Analysis of NEWS2 trend to predict risk of death in COPD
Sarah Forster (Nottingham (Nottinghamshire), United Kingdom), Tricia Mckeever, Dominic Shaw

PA112  Examining the correlation between length of hospital stay and disease severity in patients with COPD
Kristina Kock Hansen (Vejle, Denmark), Lone Bach Kristensen, Ole Hillberg, Anders Løkke

PA113  30-day Readmissions After Acute Exacerbations of COPD: How Relevant Are Comorbidities?
Cláudia Freitas (Vila Nova de Gaia, Portugal), Joana Dias, Pedro Leuschner

PA114  Validation study of MEP-questionnaire for detection of exacerbations (Ebs) - interim analysis
Thomas Hering (Berlin, Germany), Nils Kossack, Axel Krinner, Dietmar Bulenda

PA115  Fast time estimation is associated with high levels of depression in COPD patients
Nikolay Evgeniev (Ruse, Bulgaria), Nikolay Conev, Rumelia Nikolaeva, Ivan Donev

PA116  The diagnostic value of FEV6/FVC in COPD patients with severe bronchial obstruction
Iryna Nemish (Chernivci, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Olga Nesterovska

PA117  The effect of awareness campaigns for early detection of obstructive lung disease
Ramona Elena Nedelcu (Bucuresti, Romania), Roxana Maria Nemes, Ruxandra Ulmeanu, Florin Dumitru Mihaltan

PA118  Comparison of COPD patients with and without diabetes mellitus
Nimet Aksel (Izmir, Turkey), Hulya Sahin, Ilknur Naz Gursan

PA119  Predictive factors of lung function in patients with COPD and heart failure
Manuel Abraham Gómez Martinez (Mexico City, Mexico), NATALIE MARTINEZ LUNA, Dulce Gonzalez Islas, Arturo Orea Tejeda, Yael Ramiro Gatelum Ayala, Óscar Ubald Martinez Reyna, Valeria Ariadna Martinez Vazquez, Ilse Perez Garcia, Martha Elena Quintero Martinez, Izzel Anemally Sandoval Sanchez, Leslie Verdeja Vendrell, Rocio Sanchez Santillan, Juan Jose Orozco Gutierrez, Stephanie Gisel Montoya Azpetia
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)

**PA120**
*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

**PA121**
*Impact of PAHs exposure on exacerbation frequency in asthma using a new grid-scale simulation of PM 2.5-PAHs distribution.*
Yu-Chen Huang (Taipei City, Taiwan), Te Fang Sheng, Shih-Wei Lee, Chon-Lin Lee, Kian Fan Chung, Chun-Hua Wang

**PA122**
*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

**PA123**
*Effect of COPD on immediate and long-term outcomes of STEMI.*
Alexandra Balitskaya (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valeriy Elykomov, Inna Weisman

**PA124**
*Dysfunctional breathing impacts symptom burden in Chronic Obstructive Pulmonary Disease (COPD).*
Therese Lappere (København NV, Denmark), Uffe Bodtger, Ditte Kjærgaard Klein, Laurits Frössing, Morten Hvidtfeldt, Alexander Silberbrandt, Nikolaj Obling, Leif Bjørner, Celeste Porsbjerg

**PA125**
*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

**PA126**
*Preclinical myocardial dysfunction in healthy smokers and COPD patients*
Vera Nevzorova (Vladivostok (Primorsky Krai), Russian Federation), Elena Kondrashova, Dmitriy Kondrashov

**PA127**
*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, Fredrick Trinkmann, Victoria Obermoser, Peter Kardos, Carl-Peter Criée, Heinrich Worth

**PA128**
*LSC - 2020 - Could the overweight influence bronchiectasis (B) exacerbations frequency (EF)?*
Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Kateryna Gashynova, Valeriia Dmytrychenko

**PA129**
*Can fractional exhaled nitric oxide be useful to differentiate asthma-chronic obstructive pulmonary disease (COPD) overlap (ACO) from COPD-only?*
SEYED MOHAMMADYOUSEF MOSTAFAVII POURMANSHADI (Montreal (QC), Canada), Nafiseh Naderi, Palmina Mancino, Pei Zhi Li, Wan Tan, Jean Bourreau

**PA130**
*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, Danhee Kang, Hyoung Choi, Hyun Lee, Hye Kyeong Park, Hojoong Kim, Chin Kook, Rhee, Kwang Ho Yoo, Juhee Cho

**PA131**
*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

**PA132**
*Decreased pulmonary function tests are affected by blood glucose tolerance*
Ke Huang (Beijing, China), Ting Yang, Guangwei Li

**PA133**
*Hyaluronic acid as marker of respiratory system remodelling*
Vasili Fedotov (Nizhny Novgorod, Russian Federation), Tatiana Blinova

**PA134**
*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
PA135 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

PA136 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

PA137 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

PA138 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 Searles, John Attia, Michael Hensley, Joerg Mattes, Peter Gibson

PA139 Late Breaking Abstract - Small Airways Dysfunction (SAD) correlates with relevant asthma outcomes: longitudinal results from the Assessment of Small Airways In Asthma (ATLANTIS) Study
Monica Kraft (Tucson, United States of America), Gabriele Nicolini, Maarten Van Den Berge, Christopher Brightling, Leonardo Fabbri, Thys Van Der Molen, Alberto Papi, Klaus Rabe, Salman Siddiqui, Dave Singh, Dirkje Postma

PA140 Within-day repeatability of fractional exhaled nitric oxide in severe asthma
Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Fahad Alahmadi, Robert Niven, Stephen Fowler

PA141 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 Anta, Lorea Tabernero Huguet, Nuria Martina Malanda

PA142 Changes in exhaled breath particles lipid composition following experimental endotoxin challenge
Olaf Holz (Hannover, Germany), Per Larsson, Heike Biller, Grielof Koster, Anthony Postle, Anna-Carin Olin, Jens M. Hohlfeld

PA143 Transdiaphragmatic pressure in COPD patient and its correlation with diaphragm dynamics including spirometry findings.
Sandip Agarwal (new delhi, India), Randeep Guleria, Anant Mohan, Karan Madan, Gc Khilnani, Vijay Hadda, Gopal Chawla

PA144 The relationship of spirometric and echocardiographic (ECHO) parameters in children with bronchial asthma (BA)

PA145 Decreased lung function is associated with vitamin D deficiency in middle aged Korean health screening examinees
Hye Kyeong Park (Goyang-Si, Republic of Korea), Heejung Jun, Jonghoo Lee, Jae-Uk Song

PA146 Feasibility of home spirometry in patients with chronic graft-versus-host disease: a prospective observational study
Jane Turner (Dundas, Canada), Chad He, Lisa Chung, Kelsey Baker, Jesse Hubbard, Elizabeth Rankin, Maggie Guerriero, Michael Boeckh, Karen Syrrjala, Paul Martin, Ted Gooley, Stephanie Lee, Mary Flowers, Guang-Shing Cheng

PA147 Reference values for lung clearance index (LCI) derived from sulphur hexafluoride multiple breath washout testing.
Frederik Trinkmann (Heidelberg, Germany), Máté Maros, Katharina Roth, Arne Hermanns, Julia Schäfer, Joshua Gawlitza, Joachim Saur, Ibrahim Akin, Martin Borggrefe, Thomas Ganslandt, Felix Herth

PA148 Pulmonary dysfunction after treatment for childhood cancer - Comparing multiple-breath washout with spirometry
Jakob Usemann (Basel, Switzerland), Christina Schinder, Simeon Zuercher, Ruedi Jung, Rahel Kasteler, Bettina Frauchiger, Corina Silvia Rueegg, Philipp Latzin, Claudia Elisabeth Kuehni, Nicolas Xavier Von Der Weid
PA149  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 (Tabriz, Islamic Republic of Iran), Ensiyeh Seiyedrezazadeh

PA150  Predicting survival in COPD using the transfer factor for carbon monoxide Z-score
Roel Van Pel (Groningen, GR, Netherlands), T.M. Fabius, E Citgez, F.H.C. De Jongh, M Brusse-Keizer

PA151  Relationship of cardiac biomarkers in COPD to exacerbation and hyperinflation
Mairi Macleod (London, United Kingdom), Gavin Donaldson, James Allinson, Dexter Wiseman, Jadwiga Wedzicha

PA152  The prognostic value of extended lung function characterization in COPD
Tereza Pincikova (Uppsala, Sweden), Jens Ellingsen, Karin Lisspers, Hans Hedenström, Kristina Bröms, Björn Ställberg, Marieann Högman, Christer Janson, Andrei Malinovschi

PA153  Higher levels of alveolar nitric oxide in asthmatic frequent exacerbation: a pilot study.
Francesca Bertolini (Orbassano, Italy), Rossana Fucà, Elisa Riccardi, Vitina Carriero, Andrea Sprio, Fabio Luigi Massimo Ricciardolo

PA154  Normal range for bronchodilation response in impulse oscillometry parameters in healthy adults
Henrik Johansson (Uppsala, Sweden), Christer Janson, Xing Zhou, Johan Sundström, Per Wollmer, Andrei Malinovschi

PA155  Prediction of peak expiratory flow of the next day through a smartphone application designed for individuals with asthma
Panagiotis Sakkatos (Southampton (Hampshire), United Kingdom), Thomas Antalffy, Natalia Pavlovskai

PA156  A systematic review of the use of physiological tests assessing the acute response to treatment during exacerbations of COPD
Nowaf Alobaidi (Birmingham, United Kingdom), Mohammed Almeshari, James Stockley, Elizabeth Sapey, Ross Edgar

PA157  Activation of the cascade-system in small airways: a pilot study in asthma with small airway involvement
Anna-Carin Olin (Göteborg, Sweden), Spela Kokelj, Jörgen Östling

Pre-congress content Session 39 00:00 - 23:59

E-poster session: Unusual tools for evaluating obstructive diseases

Disease(s): Airway diseases
Method(s): Pulmonary function testing  Physiology  General respiratory patient care  Pulmonary rehabilitation  Transplantation  Cell and molecular biology  Imaging

Chairs: Thomas Bahmer (Kiel, Germany), Paul Brinkman (Amsterdam, Netherlands)

PA158  Do we require de-aeration of exhaled breath condensate samples for measuring pH
Dibakar Sahu (Sonipat (Haryana), India), Sajal De, Qmar Khan

PA159  Non Specific Spirometric Pattern: Evolving and associations with basic data
Asma Chaker (Ariana, Tunisia), Khadija Ayed, Sahar Chakroun, Salma Mokaddem, Saloua Benkhamsa Jameleddine

PA160  Significance of the forced oscillation technique for evaluation of the bronchodilation test in patients with initial mild airway obstruction
Elena M Zhukova (Novosibirsk, Russian Federation), Lyudmila Vokhminova

PA161  Forced Oscillation technique and its association to airflow limitation in COPD
Léo Franchetti (Basel, Switzerland), Desiree Schumann, Michael Tamn, Daiana Stolz

PA162  Severity of airway obstruction in COPD: comparison of z-score-based categorization approaches against FEV1%
Ana Gómez García (Valladolid, Spain), Tomas Ruiz Albi, Daniel Álvarez González, Fernando Moreno Torrero, Milko Daniel Terranova Rios, Carolina Úrbeña Carrera, Andrea Crespo Sedano, Tania Álvaro De Castro, Ana Cerezo Barqueros, Jose Ignacio Santos Plaza, Félix Del Campo Matias

PA163  A novel wearable device for monitoring lung function from tidal breathing
Wieland Voigt (Berlin, Germany), Noy Danino, Nadav Bachar, Gregory Shuster

PA164  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

PA165  Normative data across the age range for Multiple Breath Nitrogen Washout
Katherine O’Neill (Belfast (Belfast), United Kingdom), Rebecca Mcleese, Denise Cosgrove, Kathryn Ferguson, Lorcan Mcgarvey, 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 Mokhens (Tunis, Tunisia), Khadija Ayed, Asma Chaker, Soumaya Khaldi, Saloua Jameeldine

Pro?ling of systemic in?ammation and glutathione metabolism in COPD
Ingrid Oit Wiscombe (Tallinn, Estonia), Alan Altraja, Ursel Soomets, Laszlo Virag, Kalle Kilk

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, Dagmery-Christian 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 Dmytriiev (Vinnitsa, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov

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

The serum levels of the trace element Cu, Zn, Cd and Pb and progression of COPD - a preliminary study
Tanya Tacheva (Stara Zagora, Bulgaria), Elica Valkova, Yanita Zhelyazkova, Dino Dimov, Vasil Atanasov, Tatyana Vlayкова

Usefulness of oscillometry in the diagnosis of asthma
Elena Curto Sánchez (Barcelona, Spain), Sandra Orozco Echevarría, Paulina Trujillo, Jordi Giner Donaire, Soraya Sánchez Maza, Astrid Crespo Lessmann, Vicente Plaza Moral

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

Morphine for refractory breathlessness in COPD: a randomized clinical intervention study
Cornelia Verberkt (Maastricht, Netherlands), Marièke Van Den Beuken-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 Alispaic, Ricke Sørensen, Josefín Eklöf, Pradeesh Sivapalan, Anders Løkke, Niels Seersholm, Jakob Hedemark Vestergaard, Christina Marisa Bergsoe

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 (Paterna, Spain), Pilar Ribera, Amparo Bayarri, Paula Montero, Julio Cortijo

Pre-congress content: E-poster session: Clinical and basic pharmacology for COPD
Disease(s): Airway diseases, Respiratory critical care
Method(s): General respiratory patient care, Pulmonary function testing, Imaging, Palliative care, Public health, Pulmonary rehabilitation, Respiratory intensive care, Epidemiology, Cell and molecular biology
Chairs: Andrew Higham (Manchester (Greater Manchester), United Kingdom), Simon Lea (Manchester (Greater Manchester), United Kingdom)

PA176 The role of phonophoresis in patients with COPD: a randomized clinical trial
Meidi Shen (Changchun, China)

PA177 Morphine for refractory breathlessness in COPD: a randomized clinical intervention study
Cornelia Verberkt (Maastricht, Netherlands), Marièke Van Den Beuken-Van Everdingen, Jos Schols, Niels Hameleers, Emiel Wouters, Daisy Janssen

PA178 Roflumilast in severely ill patients with chronic obstructive pulmonary disease with frequent exacerbations: real-life outcomes
Jens Jensen (København Ø, Denmark), Imane Achir Alispaic, Ricke Sørensen, Josefín Eklöf, Pradeesh Sivapalan, Anders Løkke, Niels Seersholm, Jakob Hedemark Vestergaard, Christina Marisa Bergsoe

PA179 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

PA180 Omaveloxolone, CDDO-Me and Obacunone as promising therapeutic options in COPD
Cristina Estornut (Paterna, Spain), Pilar Ribera, Amparo Bayarri, Paula Montero, Julio Cortijo
### Pre-congress content Session 41 00:00 – 23:59

**E-poster session: Clinical characteristics and diagnostic tools for phenotyping asthma and COPD**

**Disease(s):** Airway diseases

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

**Chairs:** Christina Bal (Wien, Austria), Sergio Dortas Junior (Rio De Janeiro (RJ), Brazil)

| PA192 | Clinical characteristics of adult obese asthma with type-2 inflammation dominant | Masako To (Saitama, Japan), Ryuta Tsuzuki, Satoshi Yamawaki, Natsue Honda, Ichino Kano, Kosuke Haruki, Yasuo To |
| PA193 | PD40 sGaw with deep inhalation as alternative for PD20 FEV1 | Lydia Natalia (Amsterdam, Netherlands), Mart Van Der Plas, Paul Bresser |
| PA194 | FeNO is not affected by spirometry, IOS or walking in healthy subjects or well controlled asthma patients | Helle Haagensen Andersen (Brabrand, Denmark), Maha Mousa, Nuha Mousa, Lene Pedersen, Anne-Sofie Bjerrum, Tina Skjold, Hans Jürgen Heinrich Hoffmann, Johannes Schmid |
| PA195 | The relationship between total IgE and specific antibody testing by ImmunoCAP in screening allergic asthma | Fortune Alabi (Celebration, United States of America), Christopher Alabi, Hadaya Alkhatteeb, Mukudzeishe Zibanyai, Mia Zeper, Kayla Garcia, Adabanke Oderinde |
Correlation of severity of chronic obstructive pulmonary disease with potential biomarkers
SEEMA SINGH (LUCKNOW, India), Santosh Kumar, S K Verma

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 Elliott, Anoop Chauhan, Peter Howarth

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

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

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

Differences between early-onset persistent and late-onset asthma: a real life study
Martina Turrin (CORDENONS, Italy), Simontetta Baraldo, Kim Lokar Oliani, Michele Rizzo, Federico Lionello, Erico Bazzan, Manuel Cosio, Marina Saetta

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 Schmidt

Indoor home allergen load relates to clinical outcomes in COPD: A metagenomics approach
Pei Yee Tiew (Singapore, Singapore), Trevleen Kaur Jaggi, Micheal Mac Aogain, J X Kenny Lau, Fransiskus Xaverius Ivan, Nicolas E. Gaultier, Mariko Siyue Koh, Thun How Ong, Fook Tim Chew, Stephan C. Schuster, Sanjay H Chotirmall

Upper Respiratory Symptoms in Patients with Chronic Obstructive Pulmonary Disease
Nicolai Obling (Kgs. Lyngby, Denmark), Vibeke Backer, John R Hurst, Uffe Bodtger

Cross-sectional, observational study to estimate the prevalence of the eosinophilic phenotype for Brazilian patients with severe asthma: the BRAEOS study
Rodrigo Abensur Athanazio (São Paulo (SP), Brazil), Rafael Stelmach, Martti Antila, Adelmir Machado, Luisa Karla Arruda, Aline Neto, Faradiba Cerpa, Daniela Blanco, Marina Lima, Marcelo Rabahi, Pedro Bianchi, Luisa Furlan, Andre Santa Maria, Flavia Lopes, Angela Souza, Marcio Penha

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

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

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 Pilaczynska-Cemel, Ryszard Gołada, Anita Dąbrowska, Tomasz Wandtke

Serum Interleukin (IL)-6 levels in patients with severe asthma disease is associated with blood eosinophilia
Abhinav Singla (Essen, Germany), Franziska Engbert, Hümeayra Kas, Faustine Funke, Ina Haasler, Hendrik Beckert, Sebastian Reuter, Christian Taube

Pre-congress content

Session 42  00:00 - 23:59
E-poster session: Prevalence, characteristics and predictors of obstructive sleep apnoea

Disease(s): Sleep and breathing disorders Airway diseases
Method(s): Epidemiology General respiratory patient care Pulmonary function testing Surgery Imaging
Chairs: Paschalis Steiropoulos (Alexandroupolis, Greece), Ana Mafalda van Zeller (Porto, Portugal)

Characteristics of Sleep Apnoea in elderly population
Amaia Urrutia Gajate (Bilbao (Bizkaia), Spain), Sonia Castro Quintas, Elena Garay Lorente, Joseba Andia Iturrate, Borja Ortiz De Urbina Antia, Alejandro Rezola Carasusan, Valentin Cabriada Nuño
Evidence of Obstructive Sleep Apnea among First Nations People
Chandima Karunanayake (Saskatoon, Canada), James Dosman, Mark Fenton, Jeremy Seesequasis, Kathleen Mccullin, Malcolm King, Sylvia Abonyi, Vivian Ramsden, Donna Rennie, Shelley Kirychuk, Niels Koehncke, Robert Skomro, John Gjevre, Thomas Smith-Windsor, Brooke Russell, Punam  Pahwa

Clinical Characteristics and Polysomnographic Data of Patients with Treatment-Emergent Central Sleep Apnea at Central Chest Institute of Thailand
Kanlaya Panjapornpon (Khon Kaen, Thailand), Pattharaphong Plurksahaporn, Puncharat Luengwattanakit, Manatsanan Denthet, Siwaporn Pawaphutanon Na Mahasarakam

Pathophysiological and functional differences among patients with obesity-related respiratory disturbances
Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Anja Pietzke-Calcagnile, Norbert Anduleit, Winfried Randerath

Risk of obstructive sleep apnoea among PL HIV and HIV-negative outpatients in a large Nigerian tertiary hospital
Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Chihurumnanya Alo

Obstructive Sleep Apnea Syndrome clinical presentation in elderly patients
Athanasia Pataka (Thessaloniki, Greece), Seraphim Kotoulas, Ioanna Grigoriou, George Kalamaras, Nikolaos Chavouzis, Katalin Fekete, Paraskevi Argyropoulou

Prevalence of sleep disordered breathing in asymptomatic patients undergoing pre-bariatric surgery screening
Michael Cheng (Broadway (NSW), Australia), Swapna Mandal, Rubino Francesco, Richard Brown, Nicholas Hart, Amandar Piper, Joerg Steier

Sleepy versus non-sleepy severe obstructive sleep apnea patients: Polysomnographic distinctions
Mónica Marques Graffino (Montemor-O-Novo, Portugal), Richard Staats, A Cristina Lutas, Teresa Pequito, Marco Pereira, Ana Ladeira, João Valença, Sofia Tello Furtado

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

OSA and COPD overlap syndrome - demographic and anthropometric characteristics in a cohort from Western Romania
Stefan-Marian Frenț (Timișoara, Romania), Costel Serban, Roxana Pleava, Iosif Marinu, Stefan Mihaicuta

Multifrequency body composition, anthropometric indices and hydration status in severe obstructive sleep apnea patients. The role of trunk adiposity.
Izolde Bouloukaki (Heraklion (Crete), Greece), Panagiotis Panagou, Charalampos Mermigkis, Christina Ermidou, Stylianos Michalakis, Ioanna Alexaki, Nikolaos Tzanakis, Sophia Schiza

COPD GOLD classification in patients with COPD-OSA overlap syndrome
Athanasios Voulgaris (Thessaloniki, Greece), Nikoletta Paxinou, Evangelia Nena, Toulin Mouemin, Konstantina Chadia, Konstantinos Bonelis, Stavros Anevlavis, Marios Froudarakis, Paschalis Steiropoulos

Patients scheduled for bariatric surgery - clinical profile, prevalence and severity of obstructive sleep apnoea.
Kamil Polok (Kraków, Poland), Pawel Nastałek, Aleksander Kania, Natalia Cellejewska-Wójcik, Marek Przybyszowski, Krzysztof Ślądek

Is Excessive Daytime Sleepiness a predictor of co-Morbidities in Obstructive Sleep Apnea?
NITHIN KUMAR REDDY R (BANGALORE, India), Krishnaswamy U, Raj R, Venkatnarayan K, Devraj U, Ramachandran P, D Souza Ga

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 Vijayasarathe (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, Chiraz 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 pre-operative 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 Llyall, 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 : 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, Anneline 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 Brueggenjürgen, Hartmut 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 Krużewski, Wanda Stankiewicz, Andrzej Chciałowski

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

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

Clinico-radiological and serological features in Allergic bronchopulmonary aspergillosis.
Praesanth P (Amritsar (Punjab), India)

Allergy in patients with lymphangioleiomyomatosis
Elżbieta Radzikowska (Warszawa, Poland), Joanna Nowacka-Ejsmont, Joanna Milkowska-Dymanowska, Elżbieta Wiater, Katarzyna Blasinska, Adriana Rozy, Miqel Angel Pujana

Allergy testing in asthmatics and severe asthmatics: habits among respiratory physicians in Belgium
Bram Flahou (Waasmunster, Belgium), Jan Van Schoor, Stefaan 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 Brueggenjürgen, 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 INSPIRERS studies
Rita Amaral (Porto, Portugal), Cristina Jácome, Rute Almeida, Ana Pereira, Cláudia Chaves Loureiro, Cristina Lopes, Ana Mendes, José Carlos Cidrais-Rodrigues, Joana Carvalho, Ana Arrobos, Ana Todo Bom, Carmelita Ribeiro, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo-Bom, Alberto Costa, Carlos Lozoya, Natacha Santos, Diana Silva, Luís 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 Antónin-Amérgio, Belen 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, Arzu Yorgancıoğlu, Bilun Gemicioğlu, Jean Bousquet

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 diseases
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, Patricia 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 McKeough

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 Menamara, Lissa Spencer, Zoe McKeough

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, Lilah 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)
PA256  
Association among daily physical activity level and ABCD groups of COPD  
Katerina Neumannova (Olomouc, Czech Republic), Tamara Michalcikova, Vladimir Koblizek, Eva Volakova, Jaromir Zatlioukal, Marek Plutinsky, Michal Svoboda, Zuzana Liptakova, Jana Kocianova, Libor Fila, Gustav Ondrejka, Tomas Dvorak, Pavlina Musilova, Patricie Popelkova

PA257  
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

PA258  
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-Yagli, Melda Saglam, Deniz Dogru, Ayfer Alikasifoglu, Nagehan Emiralioglu

PA259  
Association between physical activity and risk of hospitalisation in bronchiectasis  
Victoria Alcaraz Serrano (Barcelona, Spain), Elena Gimeno-Santos, Giulia Sciocia, Albert Gabarrús, Adrià Navarro, Beatriz Herrero-Cortina, Rosanel Amaro, Laia Fernández, Patricia Oscanoa, Antoni Torres

PA260  
Functional impairment in lung cancer survivors is related to physical activity  
Alejandro Hereduo Cüró (Granada, Spain), Andrés Calvache Mateo, Esther Prados Román, Janet Rodriguez Torres, Florencio Quero Valenzuela, Marie Carmen Valenza

PA261  
Device-based assessment of physical activity after lung cancer surgery  
Samantha Harrison (Middlesbrough (Stockton-on-Tees), United Kingdom), Alan Batterham, Sasha Stamenkovic, Joel Dunning

PA262  
Comparison of the effects of video-assisted thoracoscopic surgery or thoracotomy on pulmonary functions physical activity and exercise capacity in lung cancer patients  
Ece Baytökt (Ankara, Turkey), Zeliha Čelik, Merve Satur Türk, Ali Čelik, Ismail Cüneyt Kurul, Meral Boşnak Güçlü

PA263  
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

PA264  
Relationship among physical activity, pulmonary functions and physical functions in candidates of allogeneic hematopoietic stem cell transplantation.  
Gülsah Bargı (İZMİR, Turkey), Meral Boşnak Güçlü

PA265  
Physically active lifestyle in elderly improves upper airways mucosal immune response  
Juliana Santos (Salvador (BA), Brazil), Telma Cordeiro, Ewin Barbosa, Vitória Paixão, Jonatas Amaral, Roberta Foster, Adriane Sperandio, Tamiris Roseira, Marcelo Rossi, Fernanda Monteiro, Gislene Amirato, Marcelo Campos, Ewan Goligher, Laurent Brochard

PA266  
Comparison of two walking strategies to promote physical activity in sedentary adults.  
Nicolás Sepúlveda Cáceres (Santiago, Chile), Matías Otto-Yañez, Rodrigo Torres-Castro, Nelson Romero, Carola Jara Fuentes, Francisca Gonzalez Bossi, Sebastián Miranda, Luis Vasconcello

PA267  
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

PA268  
Validity and usability of physical activity devices to self-monitor daily steps  
Wendy Darlene Reid (Toronto (ON), Canada), Arjun Patel, Zacherie Bergeron, Andrew Ho, Tongyu Shi, Marcelle Campos, Ewan Goligher, Laurent Brochard
**PA270** Incremental shuttle walking test evaluates the maximal exercise capacity of patients with lymphangioleiomyomatosis
Douglas Silva Queiroz (São Paulo, Brazil), Martina Rodrigues Oliveira, Alexandre Franco Amaral, Cibele Cristine Berto Marques Da Silva, Bruno Baldi, João Marcos Salge, Carlos Roberto Ribeiro Carvalho, Celso Ricardo Fernades Carvalho

**PA271** Comparison of different field tests for functional capacity assessment in individuals with fibrosing interstitial lung disease.
Luciana Malosa Sampaio (São Paulo (SP), Brazil), Tatiana Abade Ferreira De Araújo, Patrícia Lira Dos Santos, Carina Silveira Mariano Nunes, Frederico De Melo Cruz, Mariana Lima, Roberto Stirbulov, Ivan Peres Costa

**PA272** Relationship between body composition, exercise capacity and health related quality of life in Idiopathic Pulmonary Fibrosis
Felipe Machado (Horn, Netherlands), Ada Bloem, Tessa Schneeberger, Inga Jarosch, Rainer Gloeckl, Sandra Winterkamp, Frits Franssen, Rembert Koczulla, Fabio Pitta, Martijn Spruit, Klaus Kenn

**PA273** Lower limb function in pediatric interstitial lung disease
Kübra Kılıç (Konya, Turkey), Naciye Vardar-Yaglı, Melda Saglam, Deniz Inal-Ince, Nagihan Emiralioglu, Beste Oszesen, Deniz Dogru, Nural Kiper

**PA274** Predictors of Exercise Capacity in Patients with OSAS
Nurel Ertürk (Trabzon, Turkey), Ebru Calik-Kutukcu, Hulya Arikan, Sema Savci, Deniz Inal-Ince, Hakan Caliskan, Melda Saglam, Naciye Vardar-Yaglı, Hikmet Firat, Melike Yuce-Ege, Sadık Ardic

**PA275** The Validity and Reliability of the 6 Minute Pegboard and Ring Test in Patients With Controlled and Partially Controlled Asthma
Ebru Çalış Kütükçü (Ankara, Turkey), Beyza Nur Karaduz, Aslıhan Cakmak, Deniz Inal-Ince, Naciye Vardar-Yaglı, Melda Saglam, Haluk Tekerlek, Cemile Bözdemir-Ozel, Hazal Sonbahar-Ulu, Merve Firat, Hulya Arikan, Gül Karakaya

**PA276** Functional tests for adults with asthma: validity, reliability, minimal detectable change and feasibility.
Joice Oliveira (Lonrdrina, Brazil), Thamyres Spositon, Diery Rugila, Natillys Beartiz Soares Correa, Denner Ildemar Feitosa De Melo, Jéssica Priscila Da Conceição Silva, Alcindo Cerci Neto, Fatima Mitsie Chibana Soares, Fabio Pitta, Karina Couto Furlanetto

**PA277** Changes in functional exercise capacity, dyspnea, quadiceps muscle endurance, physical activity levels and risk of falling in elderly patients with asthma
Elif Develi (istanbul, Turkey), Batuhan Kayahan, Aslı Yeral, Deniz Aslan, Rasmi Muanmer, Yasar Kucukardali

**PA278** Evaluation of functional exercise capacity using two-field test in lung cancer patients
Naciye Vardar Yağlı (Ankara, Turkey), Kübra Kılıç, Melda Saglam, Ebru Calik Kütükçü, Deniz Inal Ince, Saadettin Kilçekap

**PA279** Comparison of Exercise Capacity Respiratory Muscle Strength and Depression in Non-Small Cell Lung Cancer Patients and Healthy Controls
Zeynep Pelin Dündar (Konya, Turkey), Meral Boşnak Güçlü, Aydınl Çitaş, Mustafa Benekli

**PA280** Relationship between BODE index score, respiratory and peripheral muscle strength in chronic obstructive pulmonary disease
Naciye Vardar Yağlı (Ankara, Turkey), Merve Firat, Melda Saglam, Ebru Calik-Kutukcu, Deniz Inal-Ince, Lutfi Coplu

**PA281** Development of an endurance step test for use in patients with COPD
Simone Dal Corso (São Paulo (SP), Brazil), José Rodrigues-Junior, Adriano Luppog, Daniel Amaral, Geórgia Calasans, Jessyca Selman

**PA282** Characteristics of peripheral muscle strength in patients with interstitial lung disease
Leandro Mantoani (Londrina, Brazil), Thatielle Garzia, Humberto Silva, Camile Ludovico Zambotti, Aline Ferreira Lima Gonçalves, Marcos Ribeiro, Eryc Mara Cipulo Ramos, Fabio Pitta, Carlos Augusto Camillo

**PA283** Which equations to estimate peak work rate from six minute walk test in patients with cystic fibrosis post lung transplantation?
Veronica Rossi (Milan, Italy), Martina Santambrogio, Enzo Sapienza, Emilia Privitera, Gianluca Bonitta, Letizia Corinna Morlacchi, Alessandro Palleschi

**PA284** Energy Expenditure and Muscle oxygenation at Gltte Activities of Daily Living Test in Cystic Fibrosis with and without Airway Obstruction
Cemile Bözdemir Ozel (Eskisehir, Turkey), Haluk Tekerlek, Hulya Arikan, Melda Saglam, Naciye Vardar-Yaglı, Ebru Calik-Kutukcu, Ebru Gunes Yalcin, Deniz Inal Ince

**PA285** Evaluation of functional capacity and pulmonary functions during acute pulmonary exacerbation in children with cystic fibrosis
Kübra Kılıç (Konya, Turkey), Naciye Vardar-Yaglı, Melda Saglam, Deniz Inal-Ince, Ebru Yalcin, Dilber Ademhan-Tural, Deniz Dogru
**PA300**
**Phenotype of patients with severe pulmonary hypertension secondary to chronic obstructive pulmonary disease: A multicentre study.**
Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Autenietxe Pérez, María Lorena Coronel, Carmen Pérez-Olivares Delgado, María José Cristo Rojero, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz, Carlos Andrés Quezada Loaiza, Pilar Escribano Subías

**PA301**
**The association of diuretics treatment with hospitalization rates of patients with chronic obstructive pulmonary disease and pulmonary hypertension: a population-based study**
Elena Jurevičiene (Vilnius, Lithuania), Roma Puronaite, Vaida Sudmantaite, Edvardas Danila

**PA302**
**Association of FVC/DLCO with pulmonary hypertension risk and interstitial disease in systemic sclerosis patients**
Eva Ailín Vallesjos (Ciudad Autónoma Buenos Aires, Argentina), John Martinez, Florencia Cabrera, Noelia Mastandrea, Mirenara Pertuz, Zullie Marengo, M. José López Meiller, Veronica Volberg, Ricardo Gómez Tejada

**PA303**
**Response to PAH specific therapy in systemic sclerosis patients with extensive parenchymal changes and pulmonary hypertension**
Serhat Erol (Ankara, Turkey), Asli Bostanoglu, Ozlem Isik, Kubra Turkel, Zeynep Pinar Oner, Ozlem Ozdemir Kumbasar, Cansin Tulunay Kaya, Tamer Sayin

**PA304**
**Sarcoidosis-associated Pulmonary Hypertension: A London Cohort**
Laura E Price (United Kingdom), Vasilis Kouranos, Konstantinos Dimopoulos, Colm Mc Cabe, Aleksander Kempny, Laura Price, Giulia Costola, Carl Harries, Elizabeth Renzoni, Philip Molyneaux, Maria Kokosi, Toby Maher, Felix Chua, Peter George, Athol U Wells, S John Wort

**PA305**
**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 Barberà, Isabel Blanco

**Pre-congress content**

**Session 47**

**E-poster session: New insight into the immunology of asthma and COPD**
**Disease(s):** Cell and molecular biology  Physiology  Pulmonary function testing
**Method(s):**  
**Chairs:** Philip Hansbro (Sydney, Australia), Chair to be confirmed

**PA306**
**Late Breaking Abstract - The Role of the chemokine receptor CCR3 in House Dust Mite (HDM) induced experimental asthma**
Susanne Krammer (Erlangen, Germany), Nina Li, Zuqin Yang, Julia Koelle, Carol Immanuel Geppert, Ralf J. Rieker, Gerard Graham, Susetta Finotto

**PA307**
**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 Gasiumiene, Brigita Vitkauskiene

**PA308**
**The role of innate lymphoid cells (ILCs) in a murine model of irritant-induced asthma.**
Utako Fujii (Montreal, Canada), Yumiko Ishii, Emily Nakada, Niusha Khazaei, Soroor Farahnak, Toby Mc Govern, James Martin

**PA309**
**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, Kiyoshiki Takeyama, Etsuko Tagaya

**PA310**
**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, Yoko Oku yama, Naoto Ishii, Takaaki Aka ike, Hisatoshi Sugiura, Masakazu Ichinose

**PA311**
**The effects of Rosae Multiflorae fructus extract on allergic rhinitis: animal experiments and clinical trials**
Hee Soon Shin

**PA312**
**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

**PA313**
**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 Ligeiro-Oliveira

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

Marina Bantulà Fonts (Vilassar de Dalt, Spain), Jordi Roca-Ferrer, César Picado Vallés, Valeria Tubita, Irina Bobolea, Antonio Valero, Joaquín Mullol, Joan Bartra, Ebymar 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 dehydrodijugenol 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 Ponci, 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, Juliane Kronsbein, 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

Christina Kosiol-White (New Brunswick, United States of America), Gyojuan Cao, Vishal Parikh, Brian Deeney, Joshua Vieth, Cherie Ng, Jeanette Ampudia, Stephen Connelly, Jana Badrani, Taylor Doherty, Reynolds Panettieri

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

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

Pre-congress content

Session 48

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, Eduaro 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
Chairs : Heder de Vries (Amsterdam, Netherlands), Lise Piquilloud (Lausanne, Switzerland)

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

Late Breaking Abstract - Multidisciplinary medical team in severe COVID-19 treatment
jianrong liu (guangdong, China), Haijin Lyu, Xiaofeng Yuan, Yuling An, Xiaomeng Yi, Huimin Yi, Yang Yang

Late Breaking Abstract - Early ICU physiotherapy in SARS-CoV-2 patients: A Spanish experience case series
Camilo Corbellini (Rivoli (TO), Italy), Inmaculada 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 Wanrooij, 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), Seilha Yen, Ellen Bennett, Andreas Fouras, Peter Dargaville, Graeme Zosky, Stephen Dubsky

Flow-controlled ventilation (FCV) improves regional ventilation in obese patients with diabetes type 1 and 2
Kostiantyn Dmytriev (Vinnytsia, Ukraine), Dmytro Dmytriev, Kateryna Dmytrieva

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

Prognostic value of Nutric score in critically ill patients with lung cancer
Andriani Charpidou (Athens, Greece), Effrosyni Filiou, Nikoletta Rovina, Dimitrios Vassos, Matthais Katsaras, Stamatis Tsipalis, Dimitra Grapsa, Petros Bakakos, Konstantinos Syrigos

Diagnostic yield of bronchioalveolar 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 Marin 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 Hikari Ito, Caroline Gomes Môl, Rita Pavione Rodrigues, Abrahão Fontes Baptista, Clarice Tanaka
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<td><strong>E-poster session:</strong> Clinical monitoring and new therapies for cystic fibrosis</td>
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<td><strong>Disease(s):</strong></td>
<td>Airway diseases  Sleep and breathing disorders</td>
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<td><strong>Method(s):</strong></td>
<td>General respiratory patient care  Public health  Pulmonary rehabilitation  Imaging  Physiology  Pulmonary function testing  Epidemiology  Cell and molecular biology</td>
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<td><strong>Chairs:</strong></td>
<td>Mirjam Stahl (Berlin, Germany), Florian Singer (Bern, Switzerland)</td>
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**PA352**  
**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

**PA353**  
**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

**PA354**  
**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

**PA355**  
**Shedding light into the black box of infant multiple-breath washout**  
Marc-Alexander Oestreicher (Bern, Switzerland), Florian Wyler, Philipp Latzin, Kathryn Ramsey

**PA356**  
**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 Alfeis, Lena Liboschick, Dunja Tennhardt, Alena Steinmetz, Xenia Bovermann, Jobst Röhmel, Klaudia Unerji-Frank, Friederike Dörfler, Claudia Rücks-Nilges, Bianca Von Stoutz, Lutz Naehrlich, Matthias Kopp, Anna-Maria Dittrich, Olaf Sommerburg, Marcus Mall

**PA357**  
**“Lung clearance index”; Can it be a guide for long-term follow up of children with cystic fibrosis who have normal spirometric values?**  
Beste Özsezen (Ankara, Turkey), Ebru Yalcin, Nagehan Emiralioglu, Dilber Ademhan Tural, Canan Caka, Birce Sunman, Deniz Dogru, Ugur Ozcelik, Nural Kiper

**PA358**  
**Blood gas analysis to predict survival in patients with cystic fibrosis**  
Johanna Manuela Kurz (Bern, Switzerland), Ben Spycher, Romy Rodriguez, Reta Fischer Biner, Philipp Latzin, Florian Singer

**PA359**  
**Performance of impulse oscillometry and spirometry for the diagnosis of acute exacerbations of cystic fibrosis in adults**  
Timothée Blin (Tours, France), Thomas Flamant, Julie Mankikian, Arnaud Chambellan, Sylvain Marchand Adam, Laurent Plantier
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, Pulmonary rehabilitation, Pulmonary function testing, Pulmonary rehabilitation, Pulmonary rehabilitation, Public health

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

PA370 E-RS-Survey REstrictive disorders IN long 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

PA371 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

PA372 Analysis of Pneumothorax over 10 years in Non-invasive Ventilator User with Duchenne Muscular Dystrophy
Han Eol Cho (Seoul, Republic of Korea), Seong-Woong Kang, Won Ah Choi, Jang Woo Lee, Justin Byun, Myungsang Kim

PA373 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

PA374 Outcome after surgical procedures in adult home ventilated patients at Ghent University Hospital. A registry study.
Eric Derom (Ghent, Belgium), Lauren Heyman, Pieter Depuydt, Luc De Baerdemaeker, Guy F. Joos
PA375  Physiologic and lung function outcomes of home mechanical ventilation in chronic hypercapnic COPD patients
Claúdia Freitas (Villa Nova de Gaia, Portugal), Mariana Serino, David Araújo, Tiago Pinto, Miguel Gonçalves, Mafalda Van Zeller, Marta Drummond

PA376  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

PA377  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

PA378  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

PA379  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, Gwenaëlle Maclaud, Elise Godeau, Kinan El Husseini, Samuel Dolidon, Diane Gervereau, Elodie Lhuillier, Antoine Cuvelier

PA380  Relationship between renal correction with chronic respiratory acidosis and prognosis in patients with chronic respiratory failure
Tomomasu Tsuibo (Joyo, Japan), Kensuke Sumi, Atsuo Sato, Takefumi Saito, Shohei Takata, Tetsuro Ohdaira, Tetsuji Kawamura, Toru Yamanaka, Masahiro Abe

PA381  The effect of non-invasive ventilation on the upper airway in Motor Neurone Disease
Danielle Worsley (Bournemouth (Dorset), United Kingdom), Denise Gibson, Zoe Sherlock

PA382  Mouthpiece ventilation in stable COPD (Cases description)
Lucia Méndez González (Santa Maria da Feira, Portugal), Cristina Alves, Susana Pereira, Iolanda Mota

PA383  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 Yii, Thun How Ong, Leong Chai Leow

PA384  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

PA385  Morbimortality of patients treated with noninvasive mechanical ventilation
Mafalda Teixeira (Amadora, Portugal), Mónica Lopes, Frederico Batista, Ana Furtado

PA386  Efficiency, acceptence and tolerance of long term non invasive ventilation (NIV) in chronic respiratory failure (CRF)
Aissa Sana (Sousse, Tunisia), Ben Aicha Ikhlis, Benzarti Wafa, Oumane Asma, Abdelghani Ahmed, Garrouche Abdelhamid, Hayouni Abdelaziz, Benzarti Mohamed, Gargouri Imen

PA387  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

PA388  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

PA389  Home mechanical ventilation in chronic hypercapnic COPD patients: impact on acute exacerbations and survival
Cláudia Freitas (Villa Nova de Gaia, Portugal), Mariana Serino, David Araújo, Tiago Pinto, Miguel Gonçalves, Mafalda Van Zeller, 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 Mearthur (Edinburgh (Edinburgh), United Kingdom), Enrico M. Clini (Modena (MO), Italy)
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<th>ID</th>
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<td>PA390</td>
<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>PA391</td>
<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>PA392</td>
<td>Nutritional Parameters and Dyspnea Status in End-Stage Renal Disease Patients</td>
<td>Ozge Aydin Guclu (Bursa, Turkey), Asli Gorek Dilektsli, Funda Coskun, Filiz Deveci, Hasim Atakan Erol, Mehmet Karadag</td>
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<td>PA393</td>
<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 Viguera, Irene Cabrera Martos, Marie Carmen Valenza</td>
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<td>PA394</td>
<td>Assessment of clinical and instrumental efficacy of Expiratory Flow Accelerator technology in patients with Primary Ciliary Diskinesia.</td>
<td>Silvano Dragonieri (Bari (BA), Italy), Alessia Masiave', Enza Pentassuggia, Paola Giordano, Luigi Mappa</td>
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<td>PA395</td>
<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 (istanbul, Turkey), Semiramis Özyilmaz, Nuh Mehmet Elmadağ</td>
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<td>PA396</td>
<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 Lazzerei, Silvia Campagnini, Andrea Mannini, Francesco Gigliotti</td>
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<td>PA397</td>
<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>PA398</td>
<td>Evaluation of respiratory impedance in patients with ankylosing spondylitis</td>
<td>Geetanjali Bade (New Delhi (Delhi), India), Anjana Talwar, Anjali Trivedi, Asem Chanu, Upinderpal Singh</td>
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<td>PA399</td>
<td>Exercise rehabilitation in hemodialysis patients</td>
<td>Yehia Yasseen Zakaria (Cairo, Egypt)</td>
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<td>PA400</td>
<td>DIFFERENCES OF ANXIETY, DEPRESSION AND FUNCTIONAL CAPACITY BETWEEN PATIENTS WITH CARDIOPULMONARY FAILURE WITH PARTIAL AND TOTAL ADHERENCE</td>
<td>Viridiana Peláez-Hernández (Mexico City, Mexico), Diana Rosario Mireles-Sánchez, Laura Arely Martínez-Bautista, Karen Aide Santillán-Reyes, Karla Leticia Rosales Castillo</td>
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<td>PA401</td>
<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>PA402</td>
<td>Use of intrapulmonary percussive ventilation in children with chronic respiratory illness (CRI) treated at home.</td>
<td>Adel Bougatef (San Antonio, United States of America), Kelly J. Smith, Rodney Gray, Guadalupe Martinez, Tarek Patel</td>
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<td>PA403</td>
<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, Luísa Semedo, João Cardoso, José Fragata</td>
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<td>PA404</td>
<td>Bedside evaluation of swallowing function in prolonged weaning patients. Significance of a targeted speech rehabilitation in weaning outcome.</td>
<td>Anna Bartolini (, Italy), Guido Vagheggini, Eugenia Panait, Tommaso Solli, Tania Pacioni, Martina Salvini, Anna Zito</td>
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<td>PA405</td>
<td>Prehabilitation can turn inoperable patients with NSCLC to operable ones?</td>
<td>Kalliopi Athanassiadi (Athens, Greece), Dimitrios Magouliotis, Aikaterini Katsandri, Andreas Asimakos, Niki Gianniou, Stylianos Kokkoris, Pantelis Kourgiantakis, Eirini Batsaki, Foteini Domouchtsi, Spyridon Zakynthinos</td>
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<td>PA406</td>
<td>A novel mobile wearable system for providing real-time monitoring of respiratory pattern, thoracic motion, and SpO2 on a tablet PC: A feasibility study</td>
<td>Jun Ueki (Urayasu, Japan), Keiko Hino, Emika Sano, Megumi Ikeda, Masaya Yonezawa, Hiroshi Gyobu, Yuko Sano, Hiroo Wada</td>
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### Pre-congress content Session 53 00:00 - 23:59

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

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

**Method(s):**

- General respiratory patient care
- Pulmonary function testing
- Physiology
- Epidemiology
- Public health

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

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<th>E-poster ID</th>
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<td>PA407</td>
<td>Portable oxygen concentrator versus oxygen cylinder in chronic lung disease: patient preferences and psychological implications</td>
<td>Mauro Maniscalco (Napoli (NA), Italy), Michele Martucci, Salvatore Fuschillo, Alberto De Felice, Pasquale Moretta, Antonio Molino, Michele Vitacca</td>
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<td>PA408</td>
<td>External validation of Asthma prediction tool in the French ELFE cohort</td>
<td>Sadia Khan (BORDEAUX Cedex, France), Bénédicte Leynaert, Steffi Rocchi, Jacques Deblieck, Christophe Marguet, Antoine Deschilde, Emeline Scherer, Gabriel Reboux, Marie Christine Delmas, Marie-Noëlle Dufourg, Corinne Bois, Marie-Aline Charles, Amandine Divaret-Chauveau, Laurence Millon, Chantal Raherison</td>
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<td>PA409</td>
<td>Identifying predictors for referral to a physiotherapy service for children with difficult asthma.</td>
<td>Charlotte Wells (Braintree, United Kingdom), Martin Cartwright, Shashivadan Hirani, Gemma Marsh, Pippa Hall, Angela Jamalzadeh, Samatha Sonnappa, Andy Bush, Louise Fleming, Segal Saglani</td>
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<td>PA410</td>
<td>Risk factors in early school age children predict asthma in adulthood</td>
<td>Laura Healy (Manchester, United Kingdom), Angela Simpson, Clare S Murray, Gina Kerry, Lesley Lowe</td>
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<td>PA411</td>
<td>Prevalence of and factors related to tobacco smoking in children with asthma</td>
<td>Hasan Yuksel (Manisa, Turkey), Adem Yaşar, Ahmet Türkeli, Canan Sule Kalkiner, Özge Yılmaz</td>
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<td>PA412</td>
<td>Cardiopulmonary exercise testing in children with mild-moderate controlled asthma</td>
<td>Olga Lagiou (Patras, Greece), Dimosthenis Lykouras, Kiriakos Karkoulias, Sotirios Fouzas, Gabriel Dimitriou, Michael Anthracopoulos</td>
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<td>PA413</td>
<td>Electronic monitoring of adherence to inhaled corticosteroids in preschool children with wheeze</td>
<td>Yvonne Bingham (London, United Kingdom), Louise Fleming, Nina Sanghani, James Cook, Pippa Hall, Angela Jamalzadeh, Rachael Moore-Crouch, Andrew Bush, Sejal Saglani</td>
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<td>PA414</td>
<td>Empowering children with asthma: a framework for clinical practice based on a qualitative literature review</td>
<td>Lucy Gait (Liverpool, United Kingdom), Mel Longworth, Lynsey Brown, Victoria Worrall, Claire Hepworth, Neil Minguad, Andrew Lilley, Philip Lawerence, Christopher Grime, Rebecca Thursfield, Calum Semple, Justus Simba, Ian Sinha</td>
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<td>PA416</td>
<td>Early prediction of childhood asthma exacerbations through a combination of statistical and machine learning approaches.</td>
<td>Aditya Nagori (New Delhi, India), Tavpritesh Sethi, Sushil Kumar Kabra, Rakesh Lodha, Anurag Agrawal</td>
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<td>PA417</td>
<td>Remote monitoring of medication and lung function of asthmatic children</td>
<td>Chris Landon (Ventura, United States of America), Rajoshi Biswas, Emilie Paronyan, Kaitlyn Wallace, Hannah Wicklund</td>
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<td>PA418</td>
<td>Prevalence trends of asthma, rhinoconjunctivitis and eczema in schoolchildren of Patras, Greece: six consecutive surveys between 1991 and 2018</td>
<td>Alexandros Ntzounas (, Greece), Ioannis Giannakopoulos, Panagiotis Lambropoulos, Stella Malliori, Michael Anthracopoulos, Sotirios Fouzas</td>
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<td>PA419</td>
<td>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</td>
<td>Philip Lawrence (Liverpool (Merseyside), United Kingdom), Claire Hepworth, Neil Minguad, Justus Simba, Ian Sinha</td>
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**PA421** 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 session**

**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

**Chairs:** Om Prakash Kurmi (Hamilton (ON), Canada), Deborah Jarvis (London, United Kingdom)

**PA422** 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 Rönnmark

**PA423** Predictors of permanent detachment from the workforce after acute exacerbation of chronic obstructive pulmonary disease (COPD).
Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Kragholm, Christain Torp-Pedersen, Ulla Møller Weinreich

**PA424** 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

**PA425** 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 Lundback, Eva Rönnmark, Helena Backman

**PA426** Growing up on a farm and multi-symptom asthma in adults ≥50 years of age at asthma onset
Bright Nwaru, Mona Palmqvist, Monica Arvidsson, Jan Lötvall

**PA427** No increase in incidence of asthma among adults
Petri Räisänen (Luleå, Sweden), Helena Backman, Linnea Hedman, Martin Andersson, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Rönnmark

**PA428** 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

**PA429** Long-term exposure to air pollution, road traffic noise and asthma incidence: the Danish Nurse Cohort
Shuo Liu (Copenhagen, Denmark), Shuo Liu, Jeanette Thuering Jørgensen, Youn-Hee Lim, Heresh Amini, Amar Jayant Mehta, Laust Hvas Mortensen, Rudi Gj Westendorp, Marie Pedersen, Steffen Loft, Elvira Vaclavik Brauner, Matthias Ketzel, Ole Hertel, Jorgen Brandt, Steen Solvang Jensen, Torben Stigsgaard, Claus Backalzer, Mette Kildevæld Simonsen, Zorana Jovanovic Andersen

**PA430** 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 Ciarcaglia, Claudio Tantucci

**PA431** Perennial allergy is a modifiable risk factor for exacerbations and respiratory infections in asthma patients
Christian Woehlk (København, Denmark), Muzda Ghanizada, Anna Von Bülow, Celeste Porsbjerg

**PA432** Assessment of chronic bronchitis in young adults - results from the BAMSE cohort
Gang Wang (Chengdu (Sichuan), China), Jenny Hallberg, Petra Unterberg, Christo Janson, Göran Pershagen, Antonios Georgeli, Anna Bergström, Inger Kull, Anders Lindén, Erik Melén

**PA433** 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

**PA434** The Czechia COPD mortality rate declining, but total deaths increasing
Vladimir Kobližek (Hradec Králové, Czech Republic), Jiri Jarkovsky, Ladislav Dusek, Klara Benesova, Michal Svoboda, Kristian Brat

**PA435** 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 Thorhjornsd Nader, Rachel Foong, Agnieszka Jankowska, Theodosia Salika, Costanza Pizzli, Demetris Avraam, Ahmed Elhakeem, Aitana Lertxundi, Maribel Casas, Ana Espgleaes, Marisa Estarlish, Jordi Sunyer, Debbie Lawlor, Jennifer Harris, Kinga Polanska, 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 Farmes, Juha Färkkälä, 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 53 788 individuals
Vânia Patrícia Martins Rocha (Aveiro, Portugal), Silvia Fraga, Carla Moreira, Cristian Carmeli, Alexandra Lenoir, Andrew Steptoe, Graham Giles, Marcel Goldberg, Marie Zins, Mika 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 Barre, Prakash Doke, Sundeep Salvi

A acute effects of air pollution on urgent hospitalizations on a general population sample: a case-cross over study
Salvatore Fasola (Palermo (PA), Italy), Sara Maio, Sandra Baldacci, Claudio Gariazzo, Francesco Forastiere, Stefania La Grutta, Massimo Stafoggia, Giovanni Viegi, Beep Collaborative Group

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, Pulmonary function testing, Epidemiology, Endoscopy and interventional pulmonology, Imaging

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 Zeghmarr, 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 Giacommi, 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, Vasilieos Kouranatos, Peter M George, Phil I Molyneaux, Felix Chua, 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
OLÁIA Bronte Moreno (GALDAKAO, Spain), Myriam Aburto, Amaia Urrutia, Carmen Jaca, Maria Iciar Arrizubieta, Miren Begoña Salinas, Laura Tomás, Iñaki Salegui

E.R.S. 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020

PA436
PA437
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PA439
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

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

Extracellular HSP90a promotes pulmonary fibrosis by impairing autophagic flux in lung fibroblasts
jinming 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)

Comparative evaluation of the rapid diagnostic assays for detecting tuberculosis (TB) in a reference center for drug resistant TB in Brazil
Ana Paula Santos (Rio De Janeiro (RJ), Brazil), Thiago Malaquias, Elisângela Costa, Fernanda Mello, Afrânio Kritski
Mutation analysis and treatment outcomes of Isoniazid monoresistant tuberculosis
Rajyalakshmi Gurram (Visakhapatnam, India), Vijayakumar Kaminedi, Phanindra Vasu Kotti, Yamini Priyankha Chintham

Pulmonary surfactant: a Trojan Horse to deliver anti-TB drugs
Alberto Hidalgo (Saarbrücken, Germany), Jesus Perez-Gil, Claus-Michael Lehr

Household catastrophic expenditure for tuberculosis care among adults ≥ 18 years in Pakistan: Incidence, its determinants and policy implications
Shama Razzaq (Karachi, Pakistan), Shahla Naeem, Zafar Fatmi

Assessment of the dynamics of focal changes after the intensive phase of treatment in patients with sensitive and resistant pulmonary tuberculosis
Oleksii Denysov (Kyiv, Ukraine), Mykola Gumeniuk, Mykola Lynyuk, Galina Gumeniuk, Viktoria Ignatieva

Long-term results of treatment with bedaquiline in patients with drug-resistant tuberculosis
Tatyana Morozova (Saratov, Russian Federation), Olga Otpuschenniykova

An outbreak of extensively drug-resistant tuberculosis among a Portuguese family
Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Andre Nunes, Carina Rolo, Daniel Duarte, Natalia André, Rita Macedo, Antonio Domingos

TREATMENT OF MDR-TB PATIENTS WITH DELETION POLYMORPHISM OF XENOBIOTICS DETOXICATION SYSTEM GENES OF GLUTATHIONE-S-TRANSFERASE
Igor Semianiv (Chernivtsi, Ukraine), Liliia Todoriko, Marianna Semianiv

Results of drug susceptibility testing of Mycobacterium tuberculosis isolated from sputum and surgical material from pulmonary tuberculosis patients
Diana Vakhrusheva (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Kseniya Belousova, Tatyana Umpeleva, Natalya Eremeeva

Tuberculosis in children exposed to MTB with different drug resistance patterns
Marina Lozovskaya (St. Petersburg, Russian Federation), Alena Kurova, Natalya Nikiforenko, Elena Borisovna Vasilieva, Iulia Yaroyava, Ludmila Klochkova

Demographic characteristics of drug-resistant tuberculosis in the Russian Federation
Sergey Sterlikov, Larisa Rusakova, Atadjan Ergeshov, Yulia Mikhaylova

Treatment outcome in patients with MDR-TB treated with bedaquiline containing regimens, Republic of Moldova
Dumitru Chesov (Chisinau, Republic of Moldova), Jan Heyekendorf, Maja Reiman, Sofia Alexandru, Ana Donica, Elena Chesov, Valeriu Crudu, Victor Botnaru, Christoph Lange

Two year experience with the GeneXpert NAAT system in the romanian M. tuberculosis NRC in Bucharest
Adriana Moisoiu (Bucuresti, Romania), Andrei-Alexandru Muntean, Mircea Ioan Popa

A UK cost comparison of amikacin therapy with bedaquiline, for drug resistant tuberculosis
Kavina Manalan (London, United Kingdom), Nathan Green, Amber Arnold, Graham Cooke, Martin Dedicoat, Marc Lipman, Thomas Harrison, Onn Min Kon

Clinical Features Associated with Linezolid Resistance Among Multidrug Resistant Tuberculosis Patients at a Tertiary Care Hospital in Mumbai, India
Enrica Intini (Rome, Italy), Jeffrey A. Tornheim, Amita Gupta, Zarir F Udwadia

Pre-congress content  Session 57  00:00 - 23:59

E-poster session: Tuberculosis and comorbidities

Epidemiology  Public health  Pulmonary function testing  Cell and molecular biology  Imaging  Surgery

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

Bronchial asthma and pulmonary tuberculosis as a comorbid diseases
Sergii Zaikov (Kyiv, Ukraine), Artemii Bogomolov, Sergii Zaikov

Comorbidity in multidrug-resistant tuberculosis patients
Diana Ivanova (Moscow, Russian Federation), Diana Ivanova, Sergey Borisov, Nickolay Nikolenko, Sergey Kosenkov

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
John Nyirenda (Freiburg, Germany), Dirk Wagner, Bagrey Ngwira, Berit Lange
Chronic obstructive pulmonary disease and tuberculosis: phenotypes, options
Anna Mordyk (Omsk, Russian Federation), Natalia Bagisheva

Mycobacterium tuberculosis infection in patients with inflammatory bowel disease who received Anti-Tumor Necrosis Factor treatment in Russia
Xenia Frolova (Moscow, Russian Federation), Serge Borisov

A UK centre based review of tuberculosis post kidney transplantation
Kavina Manalan (London, United Kingdom), Mirae Park, Charaka Ratnayake, Rawya Charif, Onn Min Kon

Features the effectiveness of the treatment of moxifloxacin in patients with co-infections tuberculosis/HIV and hepatitis B, and/or C
Dmytro Butov (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gumeniuk, Oleksiy Denysov, Tetiana Sprynsian, Tetiana Butova

Inpatient versus outpatient approach in tuberculosis
Sara Catarina Dias (Braga, Portugal), Bárbara Seabra, Jorge Ferreira, Valquiria Alves, Bruno Cabrita, Ana Luisa Fernandes, Joana Amado

Dynamics of inflammation biomarkers in drug sensitive tuberculosis and pneumonia
Greta Musteikiene (Kaunas, Lithuania), Skaidrius Miliauskas, Jurgita Zaveckiene, Daiva Urbonienė, Astra Vitkauskienė, Marius Zemaitis, Albina Naudziunas

TB following targeted and biological therapy: can we predict it?
John Cafferkey (London, United Kingdom), Sophia Kostich, Paul Jewell, Mikin Patel, Mirae Park, Timothy Harris, Genesis Canales, Georgina Russell, Onn Min Kon, Laura Martin

Relative risks of tuberculosis in adolescents with comorbidities
Larissa Gorbach (Minsk, Belarus)

Treatment outcome among post TB obstructive airways diseases & COPD: A Prospective Cohort study
Sudarsan Pothal (Sambalpur (Odisha), India), Smrutirekha Swain, Aurobindo Behera, Gaurahari Pradhan, Rekha Manjhi, Pravati Dutta

Relationship between the Matrix Metalloproteinases (MMPs) levels and lung mechanic parameters established by impulse oscillometry (IOS) in patients with pulmonary tuberculosis (TB)
Larisa Kiryukhina (St. Petersburg, Russian Federation), Dilyara Esmedlyaeva, Nina Denisova, Natalia Nefedova, Marina Dyakova, Piotr Yablonski

Radiological sequelae in post tuberculosis patients treated at a tertiary care center in Pakistan: A retrospective study
Syed Muhammad Zubair (Karachi, Pakistan), Muhammad Irfan, Ali Bin Sarwar Zubairi

Timing of relapse of tuberculosis in people with co-infection (HIV/TB)
Elena Filatova (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Elena Filatova, Irina Vasilyeva, Vadim Testov, Andry Senin

Surgical methods in the diagnostic of tuberculosis in HIV patients
Tamila Abu Arqoub (Moscow, Russian Federation), Mikhail Sinitsyn, Boris Barskiy, Dmitriy Plotkin, Mikhail Reshetnikov

Delay in diagnosis of pulmonary tuberculosis in a Portuguese Center
Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), André Nunes, Carina Silvestre, Daniel Duarte, Paula Raimundo, Natalia André, António Domingos

Efficacy of intravenous isoniazid, rifampin and ethambutol administration in patients with failed treatment of tuberculosis and malabsorption syndrome
Tatiana Butova (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gumeniuk, Dmytro Butov

Primary drug resistance in women with lung tuberculosis diagnosed during pregnancy, after delivery and within following 3 years.
Svetlana Goponiako (Gomel, Belarus), Irina Buynevich, Dmitriy Rusanov

Social determinants and co-morbidities of patients with extensively drug resistant tuberculosis
Liubov Parolina (Moscow, Russian Federation), Olga Otpuschenkova, Natalia Kazimirova, Natalia Doktorova

Pre-congress content
E-poster session: Tuberculosis and adverse events in different populations
Disease(s): Respiratory critical care
Method(s): General respiratory patient care  Public health  Epidemiology  Surgery  Respiratory intensive care
Chairs: Dennis Falzon (Geneva, Switzerland), Onno Akkerman (Groningen, Netherlands)

**PA498**
Hyperuricemia in patients with newly detected MDR tuberculosis.
Rizvan Abdullayev (Moscow, Russian Federation), Elena Chumakova, Oksana Komissarova

**PA499**
Predisposition to the development of depressive states in patients with M/XDR TB
Tatiana Butova (Kharkiv, Ukraine), Oleksiy Denysov, Tetiana Sprynsian, Dmytro Butov

**PA500**
Side effects of tuberculosis chemotherapy: intestinal dysbiosis
Svetlana Kayukova (Moscow, Russian Federation), Zhanna Luluyeva, Tatevik Bagdasaryan, Atadzhan Ergeshov

**PA501**
Psychiatric Complications in Patients Receiving Treatment for Multi-Drug Resistant Tuberculosis
Poulomi Chatterjee (Gurgaon (Haryana), India), Sameer Kotalwar, Vipin Goyal, Kapil Sharma

**PA502**
Methods of bronchopleural fistula prevention in MDR-, XDR TB patients after pneumonectomies
Alexander Bazhenov (Ekaterinburg, Russia), Igor Motus, Petr Kholniyi, Nataliya Raevskaya, Igor Medvinsky, Dmitriy Kuznetsov

**PA503**
Long-term effectiveness of surgery treatment of TB patients
Evgeny Beliovskiy (Moscow, Russian Federation), Michael Sinitsyn, Sergey Borisov, Marina Matveeva, Sergey Rostovtsev

**PA504**
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

**PA505**
Prevalence and characteristic of drug-resistant tuberculosis patients in South Halmahera District, eastern Indonesia
Ait Puspitasari Dewi (Jakarta, Indonesia)

**PA506**
The results of video observed treatment in tuberculosis patients, in Ankara
Asiye Cigdem Simsek, Suha Ozkan, Seyit Erhan Kabasakal

**PA507**
Do PL HIV know and adhere to Isoniazid preventive therapy in health facilities in Southeast Nigeria?
Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Ifeyinwa Akamike, Lawrence Ogbonnaya

**PA508**
Barriers and facilitators of a latent tuberculosis screening and treatment programme of recent migrants
Kathryn O’Brien (New York, United States of America), Sabrina Ikram, Matthew Burman, Heinke Kunst

**PA509**
Barriers in accessing the specialised healthcare providers in homeless patients with tuberculosis
Andrei Ungurean, Alina Malic, Evelina Lesnic

**PA510**
Pulmonary Tuberculosis seasonality in Tunisia
Abir Hedhli Ep Cherni (Tunis, Tunisia), Safa Marzouki, Meriem Mjid, Yacine Ouahchi, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujani, Samira Merai

**PA511**
A study on prevalence of latent tuberculosis in prison inmates of a single outdoor prison in central Sri Lanka
Sachini Seneviratne (Kandy, Sri Lanka), Dushantha Madugedara, Ruwantha Edirisinghe, Birendra Perera, Lihini Basnayake, Sajani Dharmadasa, Ishelda Nawarathne, Prasanna Wijerathne, Anushika Luckmy

**PA512**
Delay in tuberculosis diagnosis and treatment in Bissau, Guinea-Bissau
Joelma Clotilde Costa Da Silva (Vila Nova de Gaia, Portugal), Emiliana Marcelina Dos Santos, Dionisio Mendes, Raquel Duarte

**PA513**
Shift in the rate of epidemiological characteristics but not in the rate of active tuberculosis infection of refugees and immigrants visiting a Greek chest hospital
Afruditi Boutou (Thessaloniki, Greece), Christos Karachristos, Pantelis Vlachogiannis, Christina Rampiadiou, Helen Kerezidou, Dimosthenis Fletsios, Ilektra Karypidou, Maria Papathanassiou, Anastasia Athanasiadou, Konstantina Nikolaou, Michael Agrafoitis, Evangelia Serasi, Adamantios Chloros

**PA514**
Alternate diagnosis in clinically diagnosed pulmonary tuberculosis patients treated at tertiary care hospital in a high TB burden country
Muhammad Irfan (Karachi (Sindh), Pakistan), Aqsa Zahid, Maham Vaqar, Ayesha Sharif, Kauser Jabeen, Ali Bin Sarwar Zubairi

**PA515**
Cough improves earlier than sputum after treatment initiation in hospitalised patients with pulmonary tuberculosis
Kyohei Oishi (Shizuoka, Japan), Toshihiro Shirai, Taisuke Akamatsu, Hirofumi Watanabe, Yutaro Kishimoto, Mika Saigusa, Akito Yamamoto, Satoru Morita, Kazuhiro Asada

**PA516**
Subclinical tuberculosis disease and its treatment outcomes: a prospective cohort study in South Korea
Jinsoo Min (Seoul, Republic of Korea), Chaeuk Chung, Sung Soo Jung, Hye Kyeong Park, Sung-Soon Lee, Ki Man Lee
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<td>Daniela Maria Cirillo (Milano (MI), Italy), Lorenzo Guglielmetti (Paris, France)</td>
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<td>Clinical profile and treatment outcomes of mediastinal lymph node TB: A prospective cohort study</td>
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<td>PA519</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>PA520</td>
<td>A retrospective evaluation of the management of ocular tuberculosis in Southampton</td>
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<td>Sophie Knife (Dorchester, United Kingdom), Ben Marshall</td>
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<td>Evaluation of inflammatory mediators of pleural effusion in tuberculosis and non-tuberculosis patients</td>
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<td>PA522</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>PA523</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>PA524</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>Lepekha Larisa (Moscow, Russian Federation), Maria Erokhina, Elena Voronezhskaya, Vadim Avdienko, Atadzhan Ergeshov</td>
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<td>PA525</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, Rajasekar Sekar, Balamugesh Thangakunam</td>
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<td>PA526</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, Marys 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>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-Chie Chen (New Taipei City, Taiwan), Han-Ching Yang, Meng-Rui Lee, Jann-Yuan Wang, Jen-Chung Ko</td>
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<td>PA528</td>
<td>Identification of cultures consisting of two species of mycobacteria from patients in the Russian Federation</td>
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<td>Tatiana Smirnova (Moscow, Russian Federation), Atadzhan Ergeshov, Sofya Andreevskaya, Elena Larionova, Irina Andrievskaya, Ekaterina Kiseleva, Larisa Chernousova</td>
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<td>PA529</td>
<td>Accuracy of the Xpert MTB/RIF® in Broncoalveolar Lavage and Induced Sputum at Tertiary Care Hospital in Rio de Janeiro, Brazil</td>
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<td>Rapid and Sensitive Diagnosis of Tuberculosis with a Gene-based Microfluidic Platform</td>
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<td>PA532</td>
<td>Analysis of circular RNAs expression profile in tuberculous pleurisy</td>
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<td>Qiang Xiao, Xi Li, Fu Rong</td>
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### PA533
**Comparison of the results HRCT and SPECT with 99mTc-technethril in detection the tuberculosis process in children**  
Stanislav Mikhailov (Moscow, Russian Federation), Stanislav Mikhailov, Natalya Yukhimenko, Natalya Karpina, Rasul Amansakhedov, Andrey Perfiliev

### PA534
**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

### PA535
**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, Dmitriy Dedushkin, Tatiana Smirnova, Svetlana Shishova, Natalya Karpina

### PA536
**A set of microRNA markers of active tuberculosis.**  
Galina Shepelkova (Moscow, Russian Federation), Vladimir Evstifeev, Anush Ergeshova, Alexander Gusakov, Mamed Bagirov, Vladimir Yeremeev

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### 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)

#### PA537
**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

#### PA538
**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

#### PA539
**The underestimated subjectivity of the COPD assessment test**  
Rebeca Martins Natal (Guarda, Portugal), Ana Pais, Jorge M. R. Gama, Fátima Rodrigues, Luís Vaz Rodrigues

#### PA540
**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

#### PA541
**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, Yoriiuki Murata, Keji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kagukawa, Kazuto Matsunaga

#### PA542
**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

#### PA543
**Assessment of thyroid function tests in COPD phenotypes**  
AYCAN YUKSEL (Ankara, Turkey), Evrim Eylem Akpinar, Esen Sayin Gulensoy, Nalan Ogan, Aslihan Alkan

#### PA544
**Comparative efficacy of Long-Acting Muscarinic Antagonists in COPD: Real Life Study**  
Edin Jusufovic (Tuzla, Bosnia and Herzegovina), Vladimir Zivic, Mitja Kosnik, Mirjana Jovancevic Drvenica, Sanja Hromis, Jasmina Nurkic, Mona Al-Ahmad, Ljiljana Bulat Kardum, Rifat Sejdinovic, Besim Prnjavorac, Azra Jusufovic

#### PA545
**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 Hvidtfeldt, Asger Serrild, Uffe Bødtger, Kerstin Romberg, Leif Bjerrmer, Jonas Erjefält, Karsten Kristiansen

#### PA546
**Non-contact Doppler radar screening system for the detection of COPD**  
Hiroki Nishine (Kawasaki (Kanagawa), Japan), Hiroki Takamoto, Guanghao Sun, Shohei Sato, Takeo Inoue, Takemi Matsui, Masamichi Mineshita

#### PA547
**Useful malnutrition diagnostic criteria for stable COPD in Japanese patients**  
Hiroyuki Nakamura (kagawa, Japan), Nobuyuki Kita, Chiaki Kunikata, Kiyotaka Tanimoto, Teruhisa Taoka

#### PA548
**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 Klester, 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 Szafranska, Mikolaj Kutka, Piotr Korczyński, Łukasz Kołtowski, Grzegorz Opolski, Rafał 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 Malinovski

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

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

Extracellular matrix cues and enhances acellular lung scaffold recellularization. Leticia Lopes Guimarães (São Paulo, Brazil), Leticia Lopes Guimarães, Auricle Aparecida De Brito, Tawany Gonçalves Santos, Andressa Daronco Cereta, Luis Vicente De Oliveira, Ana Paula Ligeiro De Oliveira, Renata Kelly Da Palma


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PA563 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, Jazmin García-Montes, Marcelino Alonso-Gómez

PA564 Determinants of Airflow Limitation in Chronic Obstructive Pulmonary Disease
Vasiliy Polosukhin (Nashville, United States of America), Sergey Gutor, Bradley Richmond, Timothy Blackwell

PA565 Investigation of possible role of serum fibulin as biomarker of COPD.
Tanya Tacheva (Stara Zagora, Bulgaria), Dimo Dimov, Yanitsa Zhelyazkova , Muhammad Zafar , Tatyana Tatyana

PA566 Potential biomarkers in patients with chronic obstructive pulmonary disease (COPD)
George Samanidis, Konstantinos Perreas, Christos Verikokos , Konstantinosos Kontzoglou, Despina Perrea, Panagiotis Demertzis, Georgiia Hardavella

PA567 Protective effect of inhaled glucocorticosteroids on COPD model.
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Elena Lebedeva

PA568 Adenosine-related mechanisms in the COPD pathogenesis in pulmonary tuberculosis (PT) patients
Larisa Kryukhina (St. Petersburg, Russian Federation), Marina Dyakova, Nataliai Serebyranyaya, Diljara Esmedlyaeva, Piotr Yablonskii

PA569 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

PA570 The activity of the inflammatory process and markers of an extracellular matrix destruction in pulmonary tuberculosis
Larisa Kryukhina (St. Petersburg, Russian Federation), Diljara Esmedlyaeva, Nina Alexeeva, Tatiana Novitskaya , Marina Dyakova , Eugene Sokolovich

PA571 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

PA572 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

PA573 Gene expression and cellular profiling in a rat bleomycin model of drug-induced interstitial lung disease (DIILD)
Irma Mahmutovic Persson (Lund, Sweden), Nina Fransén Pettersson, Jian Liu, Hanna Falk-Håkansson, Lars E. Olsson, Karin Von Wachenfeldt

PA574 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)

PA575 Anxiety and depression in Dutch patients with Primary Ciliary Dyskinesia: Associations with health-related quality of life
Merieke Verkleij (Amsterdam, Netherlands), Eric Haarman, Iris Appelman, Irma Bon, Josje Altenburg, Alexandra L. Quittner

PA576 Nurse-provided education improves adherence and quality of life in adult patients with cystic fibrosis
Tihana Odobasic Palkovic (Zagreb, Croatia), Duska Tjescic-Drinkovic, Dorijan Tjescic-Drinkovic, Irena Godic, Ivana Lalic, Andreja Sajnic, Sandra Karabatic, Andrea Vukic Dugac

PA577 Self-cope cards: a pilot study with children affected by cystic fibrosis
Annamaria Bagnasco (Genova (GE), Italy), Gianluca Catania, Nicoletta Dasso, Ornella Corsi, Chiara Benzon, Veronica Pisano, Martina Zerbinati, Milko Zanini, Loredana Sasso
**PA578**

**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 Rodríguez Torres, Esther Prados Román, Laura López López, Georgina Jiménez Lozano, Marie Carmen Valenza

**PA579**

**Impact of nursing intervention on the measurement of sleepiness**

Juan Lozano Lozano (Mijas (Málaga), Spain), Luis Fernandez De Rota Garcia, Dolores Garnica Báez

**PA580**

**Inspiratory muscle training may improve extubation outcome in critically ill patients in the intensive care units.**

Qiao Qiao (Changchun, China)

**PA581**

**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), Claire Gough, Jo Hobbs

**PA582**

**Improving patient communication and nursing training in bronchoscopy**

Cielito Canega (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

**PA583**

**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

**PA584**

**Use of relievers in patients with severe asthma on biologic therapy - a multidisciplinary approach**

Mariana Rezelj (Stahovica, Slovenia), Peter Kopač, Irena Počevavšček, Jana Tršan, Tina Morgan, Sabina Škrmat

**PA585**

**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, Barbara Escalonnilla Bautista, Maria Del Carmen Suarez Rubio, Jose Javier Garcia López, Luis Puente Maestu

**PA586**

**MAINTAINING PULMONARY REHABILITATION EFFECTS IN COPD PATIENTS AT HOME – A PROTOCOL STUDY**

Duarte Pinto (Porto, Portugal), Miguel Padiña, Paulino Sousa, Paulo Puga Machado

**PA587**

**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

**PA588**

**Role of the pleural clinical nurse specialist in improving the patient pathway**

Laura McNaughton (Glasgow, United Kingdom), Selina Tsim, Carolyn Macrae, Katie Ferguson, Jenny Ferguson, Kevin Blyth

**PA589**

**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

**PA590**

**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

**PA591**

**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

**PA592**

**Overnight nasogastric tube (NGT) feeding in children on non-invasive ventilation (NIV): Prevalence, feeding strategies and aspiration risk.**

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**

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

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

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Sabine Bartel (Groningen, Netherlands)
PA593  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 Bjermer, Gunilla Westergren-Thorsson, Ellen Tuveson, Anna-Karin Larsson Callerfelt

PA594  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

PA595  Late Breaking Abstract - Impact of cyclic stretch on lung mesenchymal stem cells cultured on lung-extracellular matrix hydrogels
Alvaro Villarino (Barcelona, Spain), Esther Marhuenda, Bryan Falcons, Hector Sanz, Daniel Navajas, Ramon Farre, Jorge Otero, Isaac Almendros

PA596  Hedgehog signalling crosstalks orchestrate human lung development
Randa Belgacemi (bezannes, France), Soula Danopoulos, Gaëtan Deslée, Valerian Dormoy, Denise Al Alam

PA597  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

PA598  Flagellin induces mucus hyperproduction in 3D bronchospheres
Richard Sprott, Felix Ritzmann, Frank Langer, Yvonne Kohl, Thomas Tschernig, Robert Bals, Christoph Beisswenger

PA599  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

PA600  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

PA601  Role of Extracellular HSP27 in pulmonary fibrosis
Lenny Pommerolle (Dijon, France), Olivier Burguy, Lucile Dondaine, Pierre-Marie Boutanquoi, Guillaume Beltramo, Julie Tanguy, Sabrina Loriod, Carmen Garrido, Philippe Bonniaud, Françoise Gourand

PA602  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 Vadasz

PA603  Levels of oxidised mitochondria in BAL macrophages in fibrotic ILDs.
Eirini Vasarmidi (Heraklion (Crete), Greece), Eliza Tsitoura, Semeli Mastrodemou, Athina Trachalaki, Nikolaos Tzanakis, Katerina Antonou

PA604  Modelling IPF-associated chronic cough: role for oxidative stress?
Jonathan H. A. Miles (London, United Kingdom), James P. Pinkerton, Sara J Bonvini, Eric Dubuis, Michael A Wortley, Silvia Pontis, Marcello Trevisani, Gino Villette, Riccardo Patacchini, Philip M Lolyneaux, Toby M Maher, Mark A Birrell, Maria G Belvisi

PA605  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

PA606  The study of the activity of antioxidant enzymes in exhaled breath condensate (EBC) in patients with COPD

PA607  Repeated exposure to hydrogen peroxide enhances TGF-β and LPS dependent inflammatory responses in BEAS-2B cells
Fawziye Tarhini (Glasgow, United Kingdom), Lynette Dunning, Ann Crilly, Joanna Brzeszczynska, Lorcan Mcegarvey, Keith Thornbury, Carl S.Goodyear, John C.Lockhart, Gary J.Litherland

PA608  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 Hara, Hironori Kawamoto, Naoaki Watanabe, Akihiko Ito, Akihiro Ichikawa, Nayuta Saito, Takanori Numata, Kazuyoshi Kuwano

PA609  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
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)

**PA610**
**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

**PA611**
**Airway gene expression identifies subtypes of Type 2 inflammation in severe asthma**
Laurits Frøssing (Copenhagen V, Denmark), Alexander Silverbrandt, Anna Von Bülow, Ditte Kjærgaard Klein, Marcus Ross Christensen, Vibeke Backer, Kathrine Baines

**PA612**
**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 Tam, Daiana Stolz, Michael Roth

**PA613**
**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

**PA614**
**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), Marieke Wandell, Elizabeth R Davies, Joanne F C Kelly, Stephen T Holgate, Donna E Davies

**PA615**
**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

**PA616**
**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

**PA617**
**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

**PA618**
**Role of microRNAs in regulation of T17-driven airway epithelial barrier dysfunction**
Elisabeth Ax (Gothenburg, Sweden), Henric Olsson, Cecilia Lässer, Zala Jevnikar, Madeleine Rådinger

**PA619**
**MicroRNA profiling in bronchial biopsies of asthma patients**

**PA620**
**THE ACTIVITY OF FATTY ACIDS DESATURASES IN MILD AND MODERATE ASTHMA**
Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Novgorodtseva, Marina Antonyuk

**PA621**
**Periostin and TSLP-a potential crosstalk in obstructive airway diseases**
Patyra Nejman-Gryz (Warszawa, Poland), Katarzyna Górska, Magdalena Paplińska-Goryca, Małgorzata Proboszcz, Rafał Krenke

**PA622**
**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

**PA623**
**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 Jurkeviciute, leva Janulaityte, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaite Zukauske, Jolita Palacinetyje, 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 Römborg, 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 Håkansson (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 Gáffly, János Varga

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

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 Garci-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), Yurii Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Kostiantyn Dmytriiev

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

Disease awareness in COPD: Analyses of clinical parameters and patient-reported outcome from the SAT study
Fulvio Braido (Genova (GE), Italy), Ilaria Baiardi, Paola Rogliani, Pierachille Santus, Marco Contoli, Carla Scognamiglio, 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 Litrup 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 (TJ N)
Cheryl Nickerson (Hartstown, United States of America), Dirk Von Holllen, Sara Garbin, Ketah Doty, Jeff Jasko, Chuck Cain

Lung function evaluation and patients’ satisfaction with Elenhaler® device in Greek COPD patients with =1 comorbidity versus patients without comorbidities-AEOLOS study.
Ioanna-Laoutsellnta Markou (Pikermi, Greece), Stavros Tryfon, Evaggelia Tsikrika, Georgios Kronmidas, Dimitrios Lekkos, Aikaterini Athanassiou
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 Annuzzianti, 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 Vlcek

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 Ninane, 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

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

Method(s) : Pulmonary function testing  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, Alla Tyagankova, 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 Kirchel, 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 Nouaigu, Soraya Fenniche

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
### 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)

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<td>PA665</td>
<td>Features of anti-inflammatory therapy of bronchial asthma in children with overweight and obesity</td>
<td>Nela Paramonava (Grodno, Belarus)</td>
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<td>PA666</td>
<td>Early use of nebulised beta2 agonist in the management of acute wheeze in preschool children</td>
<td>Olivia Impey (Edinburgh, United Kingdom), Kenneth A Macleod</td>
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<td>PA667</td>
<td>Use of a novel Bayesian borrowing statistical method to assess efficacy of mepolizumab in adolescents</td>
<td>Oliver Keene (Uxbridge, United Kingdom), Oliver Keene, Nicky Best, Robert Price, Isabelle Pouliquen</td>
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<td>PA668</td>
<td>Exercise-induced bronchospasm in asthmatic children. FENO and Body Mass Index relationship</td>
<td>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 Andrade, Juan Manuel Figueroa</td>
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<td>PA669</td>
<td>Endothelial dysfunction in children and adults with asthma - combined diagnostic approach</td>
<td>Marcela Kreslova (Pizeh, Czech Republic), Marcela Kreslova, Aneta Sýkorová, Olga Kirchnerová, Petr Jehlička, Ladislav Trefil, Josef Sýkora</td>
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<td>PA670</td>
<td>Relationship between allergic rhinitis and asthma in the elementary school children in Bandar Lampung, Indonesia.</td>
<td>Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Hetty Rusmini, Arti Febriani, Nelly Muslimah</td>
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Pre-congress content

Session 68  
00:00 - 23:59

E-poster session: Microbiology and antimicrobial strategies in cystic fibrosis

**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)

<table>
<thead>
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<th>PA684</th>
<th>Lymphocyte responses to Mycobacterium tuberculosis and Mycobacterium bovis are similar between BCG-vaccinated patients with cystic fibrosis and healthy controls</th>
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<td></td>
<td>Renan Mauch (Campinas (SP), Brazil), Paulo Cesar Alves, Carlos Emilio Levy, José Dirceu Ribeiro, Antonio Fernando Ribeiro, Niels Høiby, Marcos Tadeu Nolasco Da Silva</td>
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<th>PA685</th>
<th>Targeted exhaled breath analysis for detection of Pseudomonas aeruginosa in cystic fibrosis patients</th>
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<td>Renate Kos (Soest, Netherlands), Paul Brinkman, Anne H Neerincx, Tamara Paff, Marije Gerritsen, Ariane Lammers, Aleta 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 Maitland-Van Der Zee</td>
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<th>PA686</th>
<th>Comparative in vitro activity of fluoroquinolones against P. aeruginosa isolated from Greek CF patients</th>
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<td>Despoina Ioannidou (Thessaloniki, Greece), Areti Tychala, Eleni Faniadou, Chrsi Michailidou, Katerina Manika, Elpis Hatziagorou, Ioannis Kioumis</td>
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Clinics of Cystic Fibrosis Patients with Unusual Bacteria Isolated from Respiratory Cultures
Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Birce Sunman, Gulsen Hazirolan, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur 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
Vassiliy 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 Gökdemir, 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 Gökdemir, 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 Nausch

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

The efficacy and tolerability of inhaled hypertonic saline in children with cystic fibrosis
Kateryna Skriabina (Dnipro, Ukraine), Svitlana Ilchenko, Anastasia 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 Gökdemir, 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, Tatyana 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 Tobiczcyk, Yuriy Mostovoy, Adam Barczyk

Evaluation of quadriceps muscle function in patients with moderate to severe COPD
Marina Dolores Dominguez 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
PA702  Barriers towards physical activity in COPD: a quantitative cross-sectional, questionnaire-based study
Sajitha Sophia Sritharan (Aarhus V, Denmark), Elisabeth Bonholt Østergaard, Maria Elkjær, Louise Sand, Ole Hilberg, Søren Helbo, Anders Løkke

PA703  Exploring beliefs of Pulmonary Rehabilitation modes of delivery
Amy Barradell (Leicester (Leicestershire), United Kingdom), Michael Larkin, Sally Singh

PA704  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 Spaneanello, Claudio Fracchia, Mauro Maniscalco, Giacomo Corica, Niccolò Ambrosino, Michele Vitacca

PA705  Walking assessments as the predictor of acute respiratory failure in the interstitial lung disease patients.
Ryosuke Hirabayashi (Kobe, Japan), Yusuke Takahashi, Kazuma Nagata, Yusuke Wakata, Yusuke Shima, Yuri Shimada, Megumu Osaki, Atsushi Matsunashi, Kazutaka Hosoya, Yuki Sato, Atsushi Nakagawa, Ryō Tachikawa, Keisuke Tomii

PA706  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 Quintero Ramírez, Rocío Nayañi Sanchez Santillan, Susana Galicia Amor, Juan Carlos Garcia Hernández, Esperanza Trejo Mellado, Itzel Ameyalli Sandoval Sánchez, Oscar Ubaldo Martínez Reyna, Yael Ramiro Gastelum Ayala, Nathalie Martínez Luna, Ilse Pérez García, Valeria Ariadna Martinez Vazquez

PA707  Are the gains due to pulmonary rehabilitation in idiopathic pulmonary fibrosis and other interstitial lung diseases the same?
Ipek Ozmen (süreyyapaşa gh, Turkey), Elif Yıldırım, Meral Karakış, Murat Öztürk, Rüya Aydın, Emre Sahal

PA708  Three-year observation on pedometer intervention to improve daily physical activity and QOL in patients with stable COPD.
Yuko Sano (Tokyo, Japan), Rokuro Matsuoka, Yoko Sato, Shinobu Kimura, Shyoji Mihara, Hajime Kurosawa

PA709  Personality traits, physical activity and sedentary behaviors in patients with chronic pulmonary diseases
Pauline Caille (LODEVE, France), Yannick Stephan, Nelly Héraud

PA710  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

PA711  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

PA712  Predicting daily physical activity with using 6MWT in patients with chronic interstitial lung diseases.
Chieko Yoshida (Kumamoto, Japan), Aiko Masunaga, Shô Saeki, Yusuke Tomita, Hidenori Ichiyasu, Takuro Sakagami

PA713  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

PA714  Addition of neuromuscular electrical stimulation to conventional pulmonary rehabilitation treatment in patients with COPD
Vincente Andrés Benavides Córdoba (Cali, Colombia), Lina Marcela Orozco, Ricardo Mosquera, Diana Guerrero Jaramillo, Vanessa Vidal, Esteban Portuagez, Paola Tejada, Julian Andrés Rivera Motta

PA715  Non-responders to outpatient pulmonary rehabilitation: a retrospective, controlled cohort study
Kristina Gugg (Krems an der Donau, Austria), R. H. Zwick

PA716  Estimating the effectiveness of pulmonary rehabilitation for different severity of COPD, ILD and IPF
Blanka Tóth (Pilisvörösvár, Hungary), Mária Kerti, János Tamás Varga

PA717  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 Herenght, Christophe Brosson, Jean Marie Grosbois, Alain Bernady, Antony Bender, Pascale Surpas, Antoine Gueder, Pei Zhi Li, Anestis Antoniadis, Thomas Similowski

PA718  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 Martinez-Bautista, Karen Aide Santillán-Reyes, Guadalupe Lizzbeth Luna-Rodriguez, Dulce González-Islas, Arturo Orea Tejeda
The effectiveness of pulmonary rehabilitation in patients diagnosed with interstitial pulmonary fibrosis
Elif Özari Yıldırım (Istanbul, Turkey), Ipek Ozmen, Meral Karakıs, Murat Ozturk, Emre Sahal, Ruya Aydm, Reyhan Yıldız, Huriye Berk Takır, Tulin Sevim

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 Mahler, Nicole Goh, Michael Kreuter, Vincent Cottin, Birgit Schinzel, Leticia Orsatti, Tamer J Corte

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 Nitani, 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-Makon Njock

Inflammation and the lung microbiome in IPF
Athina Trachalaki (London, United Kingdom), Eliza Tsigou, Rachele Invernizzi, Semeli Mastrodimou, Eirini Vasarmidi, Adam Byrne, Toby Mahler, Katerina Antoniou, Philip L. Molyneaux

Collagen1a1 mRNA expression in BAL cells is associated with disease progression and poor survival in ILDs
Eliza Tsigou (Heraklion (Crete), Greece), Athina Trachalaki, Eirini Vasarmidi, 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, Andrew Wilson, Colm Leonard, Stephen Fowler

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

Associations of serological markers of sICAM-1, IL-1ß, MIF and su-PAR with 3-month mortality in acute exacerbation of Idiopathic Pulmonary Fibrosis
Xuran Li (Nanjing, China), Ying Zhou, Ruyi Zou, Haoran Chen, Xiaojin Liu, Yonglong Xiao, Hourong Cai, Jinghong Dai

Changes in biomarkers with nintedanib and sildenafil in subjects with IPF in the INSTAGE trial: subgroup analysis by right heart dysfunction (RHD)
Eric S White (Ann Arbor, United States of America), Jürgen Behr, Martin Kolb, Toby Mahler, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Manuel Quaresma, Bruno Crestani

Temporal subtraction of serial CT scans for visualisation and quantification of disease progression in Idiopathic Pulmonary Fibrosis
Hoen-oh Shin (Hannover, Germany), Manuel Minkler, Lion Jaeger, Jens Vogel-Claussen, Rose-Marie Apel, Tobias Welte, Frank Wacker, Sabine Dettmer, Antje Prasse
Integrative clustering analysis to discover novel IPF disease subtypes in the IPF-PRO Registry
Yi Liu (Danbury, United States of America), Yi Liu, Huang Lin, Julia F Soellner, Janine Roy, Richard Vinisko, Ramona Schmid, Benjamin Strobel, John A Belperio, Joao De Andrade, Kevin R Flaherty, Joseph A Lasky, Tracy Luckhardt, Megan L Neely, Christian Hesslinger, Scott M Palmer, Thomas B Leonard, Jamie L Todd, Margaret L Salisbury

Extracellular matrix biomarkers predict change in lung function in idiopathic pulmonary fibrosis
Henrik Jessen (Herlev, Denmark), Nils Hoyer, Sarah Ronnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker

Association between MUC5B rs35705950 genotype and response to antifibrotic treatment in patients with Idiopathic Pulmonary Fibrosis (IPF).
Elisabetta Cocconcelli (Padova (PD), Italy), Davide Biondini, Nicol Bernardinello, Simonetta Baraldo, Sara Lococo, Giulia Andreotti, Manuel G Cosio, Marina Saetta, Elisabetta Ballestro, Paolo Spagnolo

MUC2M-UC5B and TOLLIP variants: no association with disease progression and survival in an IPF cohort
Carmel Stock (London, United Kingdom), Philip Molyneaux, Peter Saunders, Maria Kokosi, Peter George, Vasilis Kouranos, Felix Chua, Athol Wells, Toby Maher, Elisabetta Renzoni

Pre-congress content
Session 71 00:00 - 23:59

E-poster session: Non-idiopathic pulmonary fibrosis interstitial lung diseases: mechanisms, diagnosis and treatment
Disease(s): Interstitial lung diseases Airway diseases
Method(s): Transplantation General respiratory patient care Pulmonary function testing Cell and molecular biology Imaging Endoscopy and interventional pulmonology Epidemiology
Chairs: Phil Molyneaux (London, United Kingdom), Martina Bonifazi (Ancona (AN), Italy)

Efficacy of antifibrotics in chronic hypersensitivity pneumonitis. A 3 year real-life observational study
Vasilios Tzilas (Athens, Greece), Argyrios Tsouvelakis, Evangelos Bouros, Theodoros Karampitsakos, Maria Ntassiou, Eleni Avdoula, Athina Trchalakli, Katerina Antoniou, Demosthenes Bouros

Effect of Antifibrotic Therapies in Patients with Interstitial Pneumonia with Autoimmune Features
Alexandra Nagy (Mosonmagyaróvár, Hungary), Enikő Bárczi, Abigél Farkas, Anikó Bohács, Krisztina Vincze, Noémi Eszes, Tamás Erdélyi, Adam Tarnoki, David Tarnoki, Veronika Müller

Consistent effect of nintedanib on reducing FVC decline across interstitial lung diseases (ILDs)
Francesco Bonella (Düsseldorf, Germany), Toby M. Maher, Vincent Cottin, Claudia Valenzuela, Marlies Wijsenbeek, Florian Voss, Klaus B. Rohr, Susanne Stowasser

Does excluding subjects with features similar to IPF affect the results of the INBUILD trial of nintedanib?
Luca Richeldi (Roma, Italy), Athol U. Wells, Vincent Cottin, Bruno Crestani, Maria Molina Molina, Rainer-Georg Goeldner, Susanne Stowasser, Rozsa Schlenker-Herceg, Yoshikazu Inoue

High molecular weight hyaluronic acid decorated-liposome as targeted drug delivery system for fibrotic lung disorders
Vanessa Frangipane (Pavia, Italy), Laura Pandolfi, Alessandro Marenco, Nicolas Tsapis, Sara Bozzini, Maura D'Amato, Monica Morosini, Sergei Mihianou, Paola Maria Soprano, Manuela Monti, Giuditta Comolli, Alessandra Balduini, Silvia Arpicco, Elias Fatall, Federica Meloni

Alterations in 24 hours blood pressure monitoring in patients with prolonged hypoxia due to interstitial lung disease
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Valeria Ariadna Martínez Vázquez, Martha Elena Quintero Martínez, Arturo Orea Tejeda, Dulce Gonzalez Islas, Rocío Sanchez Santillan, Yael Ramiro Gastelum Ayala, Oscar Ubaldo Martinez Reyna, Nathalie Martinez Luna, Ilse Pérez García, Ameyalli Sandoval Sanchez, Leslie Verdeja Vendrell, Ivette Buendia Roldan, Mayra Mejia Avila, Robert Robinson Hernandez

Many-faced histological patterns of hypersensitivity pneumonia: the insights to diagnostics
Maria Samsonova (Moscow, Russian Federation), Natalia Trushenko, Andrey Cherniaev, Kirill Mikhailicheko, Janna Omaraova, 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, Shivaparakash 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 Ootoishi, Ryota Shintani, Tsuneyuki Oda, Hideya Kitamura, Yasushi Okudela, Tae Iwasawa, Takashi Takemura, Takashi Ogura
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<td><strong>Method(s):</strong></td>
<td>General respiratory patient care Pulmonary function testing Epidemiology Public health Imaging Surgery</td>
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<td><strong>Chairs:</strong></td>
<td>Marcel Veltkamp (De Meern, Netherlands), Julie Morisset (Montréal (QC), Canada)</td>
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<td><strong>Clusters of comorbidities in idiopathic pulmonary fibrosis</strong></td>
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<td>Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Ole Hilberg, Saher Shaker, Jesper Rømhild Davidsen, Finn Rasmussen, Elisabeth Bendstrup</td>
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<td><strong>TORVAN VERSUS GAP: WHICH PERFORMS BETTER?</strong></td>
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<td>Filomena Simone (Italy), M.L. Bocchino, L. Capitelli, K. Del Vecchio, A. Laricchiuta, G. Scioscia, M.P. Foschino Barbaro, D. Lacedonia</td>
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<td><strong>2-Year survival of patients with IPF with or without GERD: a study using VA national database</strong></td>
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<td>fei tang (Hefei, China), Carol Ramos, Mehdi Mirsaiedi, Robert M. Jackson</td>
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<td><strong>Unraveling unclassifiable interstitial lung disease - a multicenter approach</strong></td>
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<td>Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Charlotte Hyldgaard, Sissel Kronborg-White, Claudia Ganter, Michael Kreuter, Elisabeth Bendstrup</td>
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<td><strong>Diagnosis and treatment of new idiopathic interstitial pneumonias cases: Analysis using the Japanese Registry.</strong></td>
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**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)
PA773  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

PA774  Is Pulmonary Rehabilitation A Savior In Idiopathic Pulmonary Fibrosis?
Seher Satar (Ankara, Turkey), Ipek Candemir, Pinar Ergun, Harun Karamanli

PA775  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 Breerton, Anna Freeman, Sophie Fletcher, Michael Grocott, Mark Jones, Sandy Jack

PA776  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

PA777  Association between influenza vaccination and the occurrence of acute exacerbation in idiopathic pulmonary fibrosis

PA778  Outcomes 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. Wuyts, Klaus-Uwe Kirchgessler, Monica Bengus, Frank Gilberg, Athol U. Wells

PA779  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, Yong Hee Lee, Sung Young Choi, Yeon Wook Kim, Byoung Sook Kwon

PA780  Pirfenidone side-effect risk stratification: targeting nursing support at a single UK prescribing centre
Carmine Hubby (Oxford, United Kingdom), Sarah J Poole, Rachel K Hoyle

PA781  Plasma MFG E8 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, Shareen Lim, Karl Kossen, Toby Maher

PA782  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 Weng, Martin Decaris, Scott Turner, Erica Park

PA783  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, Judit Axmann, John L. Stauffer

PA784  Idiopathic pulmonary fibrosis (IPF): observations from a Phase 2 trial of GLPG1205 (PINTA)
Irina Ruxandra Strambu (Bucuresti (Sector 5), Romania), Liesbeth Fagard, Paul Ford, Tom Van Der Aa, Angela de Haas-Amatsaleh, Eva Santermans, Christian Seemayer

PA785  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

PA786  Evolution of the ‘Indeterminate UIP’ HRCT pattern; a cohort snapshot
Andrew Achai (Oxford, United Kingdom), Andrea Pereira, Harriet Bothwell, Amila Rathnapala, Kritika Dwivedi, Rosie Barker, Rachel Hoyles, Ling-Pei Ho

PA787  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

PA788  eHealth in pulmonary fibrosis: an international survey among healthcare providers and patients
Gizal Nakshbandi (Rotterdam (ZH), Netherlands), Catharina Moor, Joachim Aerts, Marlies Wijnenbeek

PA789  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 Paturo, Verônica Parreira

Pre-congress content

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)

PA790
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 Paturo, Verônica Parreira

PA791
Progressive Phenotype in Chronic Hypersensitivity Pneumonitis
Filipa Lemos e Aguiar (Paredes, Portugal), Hélder Novais Bastos, Natália Melo, Patrícia Mota, António Morais

PA792
Pleuroparenchymal fibroelastosis in systemic sclerosis: prevalence and prognostic impact
Martina Bonifazi (Ancona (AN), Italy), Nicola Sverzellati, Eva Negri, Joseph Jacob, Ryoko Egashira, Sara Piciucchi, Federico Mei, Angelo De Lauretis, Dina Visca, Nicole Goh, Matteo Bonini, Carlo La Vecchia, Félix Chua, Vasilios Kouranos, George Margaritopoulos, Maria Kokosi, Toby M Maher, Stefano Gasparini, Armando Gabrielli, Athol U Wells, Elisabetta Renzon

PA793
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 Otoshi, 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

PA794
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 Orriols Martinez

PA795
Home environment exposure assessment in hypersensitivity pneumonitis
Jos M. Rooijackers (Beuningen, Netherlands), Vanessa Zaat, Marcel Veltkamp, Martin Meijer, Jos Houbreken, Emeline Scherer, Gabriel Reboux, Jan Grutters

PA796
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

PA797
Diagnosis of fibrotic hypersensitivity pneumonitis: Can an algorithm replace multidisciplinary team discussion?
Manuela Funke-Chambour (Bern, Switzerland), Eva Wohlforth, Lukas Ebner, Thomas K. Geiser, Sabina A. Guler

PA798
Levels of IGFBP-1, MMP-9 and circulating nucleosomes: a new model to diagnose SSc-ILD
Julien Guiot (Liège, Belgium), Monique Henket, Béatrice André, Nathalie Hardat, Marielle Herzog, Makon-Sebastien Njock, Michel Malaise, Renaud Louis

PA799
Clinical and functional characteristics of patients with unclassifiable interstitial lung diseases (uILD) from eurIPFReg.
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

PA800
Fibrosis score predicts mortality in patients with chronic hypersensitivity pneumonitis
Jieun Kang (Seoul, Republic of Korea), Jin Woo Song

PA801
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), Hagedü Balasz, Eva Gottstein, Dirk Theegarten, Ulrich Costabel, Christian Taube

PA802
Does “UIPAF” really exist?
Alessandro Libra (CATANIA (CT), Italy), Gianluca Sambataro, Silvia Puglisi, Mauro Pavone, Fabio Pino, Sebastiano E. Torrisi, Giisy Sardo, Ada Vancheri, Stefano Palmucci, Sara Tomassetti, Venerino Poletti, Carlo Vancheri

PA803
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
Pre-congress content

Session 75  00:00 - 23:59

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

**Disease(s):** Intersitial lung diseases  Airway diseases  Respiratory critical care

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

**Chairs:** Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Susana Del Carmen Vanoni (Córdoba, Argentina)

**PA809** 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

**PA810** Methylprednisolone pulse therapy in Acute Exacerbations of Idiopathic Pulmonary Fibrosis
Pier-Valerio Mari (Roma (RM), Italy), Matteo Siciliano, Francesca Cefaloni, Stefania Cortese, Enrico Schiavi, Bruno Iovene, Giacomo Sgalla, Giuseppe Maria Corbo, Francesco Varone, Luca Richeldi

**PA811** 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, Yasushi Inoue, Kazunobu Tachibana, Masanori Akira, Yoshikazu Inoue

**PA812** RELATIONSHIP BETWEEN AIR POLLUTION IN MADRID AND THE MORTALITY OF IDIOPATHIC PULMONARY FIBROSIS
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Ester Zamarrón De Lucas, José Manuel Padilla Brito, María Hidalgo Sánchez, María Isabel Torres Sánchez, Gema Bonilla Hernán, María Fernández-Velilla Peña, Prudencio Díaz-Agero Álvarez, Elena Villamañán Bueno, Rita Regojo Zapata, Concepción Prados Sánchez, Carlos Carpio Segura, Rodolfo Alvarez-Sala Walther

**PA813** Handgrip strenght and dynapenia in patients with idiopathic pulmonary fibrosis (IPF)
Marialuisa Bocchino (Napoli (NA), Italy), Liduvica capitelli, Anna Agnese Stanziola, Ada Di Gregorio, Lorena Gallotti, Francesco De Blasio, Paola Alicante, Alessandro Sanduzzi Zamparelli, Luca Scalfi

**PA814** Body composition and prolonged hypoxia in interstitial lung disease patients
Martha Elena Quintero Martínez (Ciudad De México, Mexico), Dulce Gonzalez Islas, Arturo Orea Tejeda, Valeria Ariadna Martinez Vázquez, Ilse Pérez García, Nathalie Martínez Luna, Oscar Martínez Reyna, Leslie Verdeja Vendrell, Yael Gastelum Ayala, Ameyalli Sandoval Sánchez, Manuel Gomez Martinez, Rocio Sanchez Santillan, Ivette Buendia Roldan, Robinson Robles Hernandez, Mayra Mejia Avila

**PA815** Biomarkers for possible early detection and progression of idiopathic pulmonary fibrosis
Francesco Cavalli, Ermanno Puxeddu, Elisa Teodori, Maurizia Sforza, Patrizia De Marco, Paola Rogliani
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<tr>
<th>PA816</th>
<th>Serum CC16 is a potential predictor for IPF diagnosis and prognosis</th>
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<td>Yaqiong Tian (Nanjing, China), Xianhua Gui, Hui Li, Jingjing Ding, Yin Liu, Yongsheng Wang, Jinghong Dai, Hourong Cai</td>
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<th>PA817</th>
<th>Potential new biomarkers for idiopathic pulmonary fibrosis</th>
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<td></td>
<td>Marina Roksandic Milenkovic (Beograd, Republic of Serbia), Jelena Kotur Stevuljevic, Vesna Ceriman, Vladislav Milenkovic, Dragana Jovanovic</td>
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<th>PA818</th>
<th>IL-18 binding protein as a noble biomarker for idiopathic pulmonary fibrosis</th>
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<td>Yu Nakamishi (Hiroshima, Japan), Yasushi Horimasu, Kakuhiro Yamaguchi, Shinjiro Sakamoto, Takeshi Masuda, Taku Nakashima, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori</td>
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<th>PA819</th>
<th>Immunologically 'supercharged' monocytes as drivers of chronic fibrosis in idiopathic pulmonary fibrosis</th>
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<td>Ling-Pei Ho (Oxford (Oxfordshire), United Kingdom), Emily Fraser, Laura Denney, Chaitanya Vuppusetty, Agne Antanaviciute, Victoria St.Noble, Rachel Benamore, Rachel Hoyles</td>
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<th>PA820</th>
<th>KL-6 as a potential therapeutic biomarker in fibrosing interstitial lung diseases</th>
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<td>Vivien Somogyi (Heidelberg, Germany), Katharina Mayer, Katharina Kriegsmann, Mark Kriegsmann, Peter Findeisen, Michael Kreuter</td>
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<th>PA821</th>
<th>Endotrophin is related to disease progression in idiopathic pulmonary fibrosis</th>
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<td>Henrik Jessen (Herlev, Denmark), Nils Hoyer, Sarah Romnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker</td>
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<th>PA822</th>
<th>Serum ST2 in Idiopathic Pulmonary Fibrosis (IPF): a possible new biomarker of disease?</th>
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<td>Ermanno Puxeddu (Roma (RM), Italy), Francesco Cavalli, Giuseppe Cillis, Elisa Teodori, Marco Perrone, Paola Rogliani</td>
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<th>PA823</th>
<th>Neutrophil-to-lymphocyte ratio in IPF patients: a novel prognostic biomarker?</th>
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<td>Miriana d'Alessandro (Siena, Italy), Laura Bergantini, Paolo Cameli, Alfonso Carleo, Piersante Sestini, Elena Bargagli</td>
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<th>PA824</th>
<th>Impact of BAL lymphocytosis &gt; 15% on the prognosis of chronic idiopathic interstitial pneumonias other than idiopathic pulmonary fibrosis: a retrospective nationwide study based on multidisciplinary discussion</th>
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<td>Akira Yamagata (Kyoto, Japan), Machiko Arita, Fumiaki Tokioka, Chikatoshi Sugimoto, Hiromitsu Sumikawa, Tonomori Tanaka, Hideki Yasui, Tomoyuki Fujisawa, Yutaro Nakamura, Takafumi Suda, Tadashi Ishida</td>
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<th>PA825</th>
<th>Cytokines, chemokines and growth factors concentration in BAL fluid from patients with idiopathic pulmonary fibrosis (IPF) and nonspecific interstitial pneumonia (NSIP)</th>
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<td>Marc Kaestle (Biberach an der Riß, Germany), Kerstin Geillinger-Kästle, David Lamb, Ulrich Costabel, Dirk Theegarten, Sorif Uddin, Matthew Thomas, Lutz Wollin, Francesco Bonella</td>
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<th>PA826</th>
<th>Difference between pathogenic and inhibitory bacterial flora is associated with acute exacerbation of idiopathic pulmonary fibrosis</th>
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<td>Shimichiro Ohshimo (Hiroshima, Japan), Hiromi Nishi, Kakuhiro Yamaguchi, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hironobu Hamada, Hiroyuki Kagawuchi, Francesco Bonella, Josune Guzman, Ulrich Costabel, Noboru Hattori, Nobuaki Shime</td>
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<th>PA827</th>
<th>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.</th>
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<td>Takatomo Hirouchi (Tokyo, Japan), Shinichiro Ota, Masashi Nishimura, Kanako Shinada, Miwa Morikawa, Sumitaka Yamanaka, Masahiro Shinoda, Osamu Sasaki, Masaharu Shinkai</td>
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<th>PA828</th>
<th>Angiogenesis in idiopathic pulmonary fibrosis</th>
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<td>Cristina Sabater Abad (Valencia, Spain), Gustavo Juan Samper, Susana Torres Martinez, Estrella Fernández-Fabrellas, Vanessa Jaimeis Diaz, Esther Verdejo Mengual, Silvia Calabuig Fariñas</td>
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**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, Pulmonary function testing, Pulmonary rehabilitation, Physiology, Respiratory intensive care, Imaging, Public health, Epidemiology

**Chairs:** Anne Holland (Fitzroy North, Australia), Andre Nyberg (Umeå, Sweden)

**PA829** Late Breaking Abstract - Effect of asthma gymnastic on blood nitric oxide, mood, energy expenditure and sex quality

**PA830** Late Breaking Abstract - Usefulness of diaphragmatic ultrasound to evaluate the efficacy of E2PAP during the respiratory rehabilitation in post extubated COVID-19 patients

**ERS 2020 International Congress**

**DETAILED PROGRAMME**

**MONDAY 24 AUGUST, 2020**

**59**

**24.08.2020**
Barriers to pulmonary rehabilitation in a private hospital in Brazil: a physician survey study
Fernanda Gushiken (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

Impact of a pulmonary rehabilitation service on functional capacity and quality of life in resource-scarce settings
Rahma Altaf (Karachi, Pakistan), Farah Naz, Farrukh Siddique, Arman Majidulla, Saima Saeed

A Breath of Fresh Air
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Andrew Levy, David Barber, Dennis Wat, Sarah Sibley

Impact of six week hospital based Pulmonary Rehabilitation programme in patients with post Pulmonary Tuberculosis sequelae: results from a hospital based longitudinal study
Aqeel Hussain (Baramulla, India), Alkesh Khurana, Rajkrishnan Soman, Abhishek Goyal, Brijendra Singh

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, Wincelaslaus Katagira, Bruce Kirenga, An Le Pham, Nguyen Ngoc Minh, Marilena Anastasakos, Ioanna Tsiligianni, Christos Lionsis, Talant M. Sooronbaev, Niels Chavannes, Sally Singh

Assessing the knowledge and enthusiasm for Pulmonary Rehabilitation in Uganda: Global RECHARGE
Wincelaslaus Katagira (Kampala, Uganda), Bruce Kirenga, Mark Orme, Amy Jones, Ruhme Miah, Michael Steiner, Rupert Jones, Andy Barton, Sally Singh

What should Pulmonary Rehabilitation (PR) look like for people with post-tuberculosis lung disease (PTBLD) in Kyrgyzstan?
Maamed Mademilov (Bishkek, Kyrgyzstan), Gulzada Mirzalieva, Claire Bourne, Mark Orme, Amy Jones, Ruhme Miah, Azamat Akylbekov, Alena Oleimik, Aidai Rysbek Kyzy, Rupert Jones, Andy Barton, Dominic Malcolm, Talant Sooronbaev, Sally Singh

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

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 Lama, Philippe Giroud, Isabelle Peytremin-Bridevaux, Milo Puhan

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

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

Respiratory rehabilitation in patients with stable COPD
Cristina Pou Alvarez (A Guarda, Spain), María Elena Toubes Navarro, Pablo Mascareñas Pazos, José Manuel Garcia Pazos, José Manuel Alvarez Dobaño, Jorge Ricoy Gabaldón, Ana Casal Mourinho, Luis Sanz Anchelegues, Luis Valdés Cuadrado

Acute 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

5-year follow-up of a respiratory rehabilitation program
Filipa Lemos e Aguiar (Paredes, Portugal), Paula Simão, Paula Almeida

Evidence for pulmonary rehabilitation in chronic respiratory diseases in sub-Saharan Africa: a systematic review
Fanuel Bickton (Blantyre, Malawi), Cashon Fombe, Enock 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 amongst 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 00:00 - 23:59

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

PA849 Relationship 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

PA850 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, Hanns-Ingos Maack, Andre Yaroshenko, Jens Von Berg, Karsten Rindt, Daniela Pfeiffer, Ernst Rummeny, Julia Herzen, Franz Pfeiffer

PA851 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, Veceslav Shibaev, Igor Medvinsky, Anna Berdimkova, Alexy Savelyev, Nikolay Khlebnikov

PA852 Feasibility of ultra-low dose CT for bronchoscopy of peripheral lung lesions.
INSU KIM (Busan, Republic of Korea), Jung Seop Eom, Hee Yun Seol

PA853 Dynamic oxygen-enhanced magnetic resonance imaging-based quantification of pulmonary hypertension
Sobitha Sathianandan (London, United Kingdom), Bhavin Rawal, Laura Price, Colin Mccabe, Marta Tibiletti, Jo Naish, Geoff J M Parker, Thomas Semple, Simon Padley, S J Worl

PA854 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 Duncan, Brett Elicker, John Fahy

PA855 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

PA856 Morphological features of bronchiectasis in patients with non-tuberculous mycobacteriosis and interstitial pneumonia
Chiori Tabe (hirosaki, Japan), Toshihiro Shiratori, Yoshiko Ishioka, Masamichi Ito,a, Hisashi Tanaka, Kageaki Taima, Shingo Takanashi, Sadatomo Tasaka

PA857 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

PA858 Thoracic fat morphomics and emphysema progression in smokers
Wassim Labaki (Ann Arbor, United States of America), Michael Ferrera, Brian Dermstine, June Sullivan, Tian Gu, Susan Murray, Jeffrey Curtis, Kathleen Stringer, David Lynch, Dharshan Vummidi, Ella Kazerooni, Stewart Wang, Meilan Han

PA859 The diagnosis of bronchogenic dissemination in pulmonary TB
Rasul Amansahedov (Moscow, Russian Federation), Lyudmila Dmitrieva, Oksana Komissarova, Rizvan Abdullaev, Atadzhan Ergeshov

PA860 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 Sugihara, Shun Inai, Ayumi Sekine, Takayuki Jujo, Seichiro Sakao, Yasunori Kasahara, Nobuhiro Tanabe, Koichiro Tatsumi

PA861 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

PA862 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
### PA863 Evaluation of dissemination activity in pulmonary diseases
Rasul Amansahedov (Moscow, Russian Federation), Lyudmila Dmitrieva, Natalya Karpina, Larisa Lepekha, Raxana Kazho, Anatoly Sigaev, Anastasiya Borisova, Atadzhan Ergeshov

### PA864 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)

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<tr>
<th>PA865</th>
<th>A single centre's real world experience with Rocket® Pleural Vent™ for treating pneumothorax</th>
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<td>Michael Ball (Salisbury, United Kingdom), Suresh Babu, Adam Wallis, Louise Newman</td>
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<tr>
<th>PA866</th>
<th>Indwelling pleural catheters for refractory transudative effusions: a tertiary centre experience</th>
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<td>Vineeth George (Oxford, United Kingdom), Robert Halflax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendrarajah, Najib Rahman</td>
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<th>PA867</th>
<th>Efficacy And Safety Of Thoracoscopic Cryobiopsy In Patients With Undiagnosed Exudative Pleural Effusion</th>
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<td>Tamer Ali El-Hadidy (Mansoura, Egypt), Ahmed Mansour, Raed Ali, Tamer El Sayed</td>
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<th>PA868</th>
<th>Oncodrivers in malignant pleural effusions associated with non-small cell lung cancer</th>
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<td>Katrine Fjaëlggaard (Farum, Denmark), Jesper Petersen, Asbjorn Hoegholm, Paul Frost Clementsen, Uffe Bodtger</td>
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<tr>
<th>PA869</th>
<th>Utility of ultrasound-guided pleural biopsy in guiding treatment for malignant pleural disease</th>
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<td>Vineeth George (Oxford, United Kingdom), Robert Halflax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendrarajah, Najib Rahman</td>
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<th>PA870</th>
<th>IPFT (Streptokinase) in septated/loculated pleural effusion with failed tube drainage is still relevant in developing countries: A Case-control study</th>
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<td>Rajat Kumar Agarwal ( Bareilly (Uttar Pradesh), India), Rajesh Agrawal, Aseem Rajpal</td>
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<th>PA871</th>
<th>Blind pleural biopsy in the study of undiagnosed pleural effusion: results and complications</th>
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<td>Mariana Barreira Calheiros Barbosa Cabral (Porto, Portugal), Dionisio Maia, Ana Magalhães, Bruno Mendes, Carlos Figueiredo, Sofia Santos, Nicole Murinello, Rita Gerardo, Alexandra Mineiro, João Cardoso</td>
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<th>PA872</th>
<th>Medical thoracoscopy in patient with the absence or a small amount of pleural effusion: medid thoracoscopy in patient with the absence or a small amount of pleural effusion</th>
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<td>Kaige Wang (, China), Fengming Luo, Panwen Liu, Dan Liu, Peng Sun, Yanlin Zhang, Haiyan Lu</td>
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<th>PA873</th>
<th>Ambulatory pneumothorax with 8FG Rocket® Pleural Vent™: setting up a service and probable safety in secondary pneumothoraces</th>
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<td>Avinash Aujayeb (newcastle, Mauritius), Karl Jackson</td>
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<th>PA874</th>
<th>Chest drain insertion documentation: if it wasn't written it didn't happen</th>
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<td>Mphants Wirima (Norwich, United Kingdom), Asif Mahmood, Faraz Sonde, Luaie Idris</td>
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<th>Endobronchial valves for emphysema are effective in patients with moderate hyperinflation in the presence of a clear target lobe</th>
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<td>Karin Klooster (Groningen, Netherlands), Jorine E. Hartman, Dirk-Jan Slebos</td>
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<th>Impact of endobronchial valves treatment on gas exchange in emphysema</th>
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<td>Marlies van Dijk (Groningen, Netherlands), David Koster, Karin Klooster, Jorine Hartman, Dirk-Jan Slebos</td>
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<th>Lung volume reduction surgery after endobronchial valve treatment</th>
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<td>Marlies van Dijk (Groningen, Netherlands), Karin Klooster, Jorine E. Hartman, T. David Koster, Caroline Van De Wauwer, Dirk-Jan Slebos</td>
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<th>Lung functional predictors of improvement in exercise capacity and quality of life after lung volume reduction by endobronchial valves</th>
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<td>Stephanie Everaerts (Leuven, Belgium), Astrid Blondeel, Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens</td>
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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)

**PA882** 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

**PA883** 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

**PA884** Barriers to access to pulmonary rehabilitation in developing countries: a systematic review
Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova

**PA885** 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 Gloeckl, Jian Wiederhold, Sophia Leidinger, Klaus Kenn, Andreas Rembert Koczulla

**PA886** 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 Maltsa, Patrick Mucci, Jean-Marie Grosbois

**PA887** 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

**PA888** 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 Maltsa, Patrick Mucci

**PA889** 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

**PA890** Freestyle diving training in pulmonary rehabilitation in COPD.
Janos Tamas Varga (Budapest, Hungary), Zoltan Csizmadia, Blanka Toth, Maria Kerti

**PA891** 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

**PA892** 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

**PA893** 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 Frownfelter, Donna Wilson, Mark Mangus, Greg Sweeney, Akua Adu-Labi, Wai Chin, 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 PuReMod 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
Juliana Santos (Salvador (BA), Brazil), Vitória Paixão, Ewin Almeida, Telma Cordeiro, Jonatas Amaral, Roberta Foster, Adriane Perandio, Tamiris Roseira, Marcelo Rossa, Fernanda Monteiro, Gislene Amirato, Carlos Santos, Mauro Vaisberg, Rodolfo Vieira, André Bachi

WHAT TOOLS AND RESOURCES DO PULMONARY REHABILITATION TEAMS USE TO DELIVER EDUCATION?
Nicola J. Roberts (Glasgow (Glasgow), United Kingdom), Lisa Kidd, Kim Kirkwood, Jane Cross, Martyn Partridge

Change in physical activity (PA) behavior assessed by accelerometry after home-based pulmonary rehabilitation (PR) in COPD
Arnaud Chambellan (Nantes, France), Camille Badatcheff, Agnes Bellocq, Frédéric Costes, Hakima Ouksel

Efficacy of psychosocial intervention in COPD: a systematic review and meta-analysis
Ingeborg Farver-Vestergaard (Skanderborg, Denmark), Anders Løkke, Robert Zachariae

Should COPD pulmonary rehabilitation be guided by a nutritional phenotypic classification?
Bertrand Herer (Brüssel Sous Forges, France), Eva Germain, Adelina Ghergan, Dhiba Marigot-Outtandy

E-poster session: Inflammatory pathways in chronic airway diseases

Disease(s): Airway diseases, Thoracic oncology
Method(s): Cell and molecular biology
Chairs: Eva Garrido (Madrid, Spain), Jonathan R. Baker (London, United Kingdom)

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 Kooistra, Irene H. Heijink, Corry-Anke Brandsma, Brian G. 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), Chuang-Xing Li, Jing Gao, C. Magnus Skold

Involvement of Parkin-mediated mitophagy in COPD-related sarcopenia pathogenesis
Akihiko Ito (Mintatoku, Tokyo, Japan), Mitsuo Hashimoto, Jun Tanahata, Hironori Kawamoto, Yusuke Hosaka, Akihiro Ichikawa, Tsukasa Kadota, Yu Fujita, Shunsuke Minagawa, Takanori Numata, Hiromichi Hara, 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 Mudiyanselage, Jos Van Nijenatten, Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Huib Kerstjens, Maarten Van Den Berge, Alen Faiz
PA909  The role of the COPD susceptibility gene FAM13A in barrier function and pro-inflammatory response of human airway epithelial cells
Qing Chen (Groningen, Netherlands)

PA910  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

PA911  Changes in the induced sputum proteome during COPD exacerbations
Ingvid Haaland (Bergen, Norway), Marit E. Aardal, Frode S. Berven, Marc Vaudel, Rune Nielsen, Marianne Aanerud, Jon A. Hardie, Per S. Bakke, Tomas M. Eagan

PA912  Metabolomics identifies biomarkers of exacerbations in smokers with and without COPD
Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José María Marín Trigo, Ciro Casanova Macario, Borja García-Cosio, Isabel Mir Viladrich, Ingrid Solanes García, José Luis Gómez Ariza, 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 Padron Fraysse, Belén Callejón Leblic, Eduardo Márquez Martín, Margarita Marín Royo, Eva Balcells Vilarnau, Antonia Llenell Casanovas, Cristina Martínez González, Juan Bautista Galdiz Iturri, Celia Lacárcel Bautista, Sandra Garcia Garrido, Germán Peces-Barba

PA913  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 HRABĚ DE ANGELIS, Takashi Furusawa, Michael Bustin, Ali Önder Yildirim

PA914  Regulation of airways smooth muscle contraction through RG-1 in asthma: a proteomic approach
Marisol Alvarez-Gonzalez, Mayra Alvarez-Santos, Blanca Margarita Bazan-Perkins

PA915  An investigation of miR-21 and the TLR4/PDCD4 axis in CF bronchial epithelium
Arlene Glasgow (Dublin, Ireland), Sebastian Vencken, Chiara De Santi, Rana Raoof, David Henshall, Barry Linnane, Paul McNally, Catherine Greene

PA916  Comparative transcriptional analysis of differentiation in murine mucociliary epithelia
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Apoorva Mulay, Lynne Bingle, Colin Bingle

PA917  CARD9S12N allele expression imbalance favors development of allergic bronchopulmonary aspergillosis
Xia Xu, Xinming Jia, Jinfu Xu

PA918  Mapping of KRAS mutations during chemical carcinogenesis
Sabine Behrend (München, Germany), Magda Spellia, Mario A. A. Pepe, Marina Lianou, Ioanna Giopanou, Georgios T. Stathopoulos

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, Intestinal 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)

PA919  Cardio-pulmonary exercise testing, stress-induced right ventricular diastolic dysfunction and exercise capacity in non-severe chronic obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

PA920  Energy cost of walking: Idiopathic Pulmonary Fibrosis vs COPD
Khadija Ayed (Nabeul, Tunisia), Salma Moakaddem, Soumaya Khalidi, Asma Chaker, Saloua Benkhamsa Jameddine

PA921  Alterations in cardiovascular function in COPD and heart failure patients with sarcopenia
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Óscar Martínez Reyna, Arturo Orea Tejeda, Dulce Gonzalez Islas, Rocío Sanchez Santillán, Nathalie Martinez Luna, Yael Ramiro Gasteum 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

PA922  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

PA923  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, Debora Merrill, Nicholas 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 Radner, Jaro Ankerst, Leif Bjerner, 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 Brønstad, Sigurd Steinshamn

Analysis of changes in clinical characteristics of patients with COPD or intermittent 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, Michelina 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 Quattrocchi, Matteo Salvini, Alessandra Napo1li, 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 Mccabe, 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 Bert0n

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 Spreatico, 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 Koenigssee, Germany)

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 Héréngt, Daniel Veale
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<th>Paper</th>
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<tr>
<td>PA939</td>
<td>Association between patient-reported outcomes and exercise test outcomes in patients with COPD.</td>
<td>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</td>
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<td>PA940</td>
<td>A newly developed ultra-small portable oxygen concentrator with equivalent efficacy to the conventional device</td>
<td>Shohei Kawachi (Matsumoto, Japan), Keisaku Fujimoto, Mahoko Sano</td>
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<td>PA941</td>
<td>Prevalence of non-pharmacological treatable traits in patients with asthma</td>
<td>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</td>
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<td>PA942</td>
<td>Barriers to Exercise in Difficult Asthma in the WATCH Cohort</td>
<td>Anna Freeman (Southampton, United Kingdom), Adnan Azim, Colin Newell, David Hill, Deborah Knight, Laura Presland, Matthew Harvey, Helen Moyes, Karl J Staples, Ramesh Kurukulaarathy, Tom M A Wilkinson</td>
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<td>PA943</td>
<td>Effects of a NEMS program in muscle-wasted AECOPD patients</td>
<td>Laura Lopez Lopez (Granada, Spain), Andrés Calvache Mateo, Irene Torres Sánchez, María Granados Santiago, Jesús Gonzalez Dueñas, Marie Carmen Valenza</td>
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<td>PA944</td>
<td>The correlation between quadriceps muscle strength and endurance and exercise performance in patients with COPD</td>
<td>Anouk Vaes (Horn, Netherlands), Maurice Sillen, Yvonne Goërtz, Maarten Van Herck, Frits Franssen, Chris Burtin, Alex Van ’T Hul, Martijn Spruit</td>
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<td>PA945</td>
<td>The effects of mechanical insufflation-exsufflation on lung function and complications in post-cardiac surgery patients</td>
<td>PI HUNG TUNG (Taoyuan, Taiwan), Men-Fang Wu, Tsai-Yu Wang, Da-Shen Chen, Han-Chuang Hu, Shu-Min Lin</td>
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<td>PA946</td>
<td>Determinants of ESWT time variability in patients with COPD</td>
<td>Anouk Stoffels (Nijmegen (GE), Netherlands), Jeanette 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</td>
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<td>PA947</td>
<td>Effect of portable non-invasive ventilation on exercise tolerance in COPD: one size does not fit all</td>
<td>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</td>
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<td>PA948</td>
<td>Resting Energy Expenditure in COPD: development of a new predictive equation</td>
<td>Panaotis Finamore (Roma (RM), Italy), Greta Lattanzi, Claudio Pedone, Simone Scarlata, Antonio Alma, Raffaele Antonelli Incalzi</td>
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<td>PA949</td>
<td>Clinical evaluation of portable oxygen concentrators: impact of pulse oxygen delivery on exercise</td>
<td>Maxime Patout (Mont-Saint Aignan, France), Julien Marias, Boris Melloni, Claudio Rabec, Jacqueline Delrieu, Tristan Bonnevie, Francis-Edouard Gravier, Frederic Herengt, Yara Al Chikahanie, Didier Foret, Arnaud Chambellan, Jesus Gonzalez-Bermerjo, Antoine Cuvelier, Jean-Francois Muir</td>
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<td>PA950</td>
<td>Factors that affect the severity of fatigue in patients with COPD</td>
<td>Ridvan Aktan (b alcova (izmir), Turkey), Aylin Ozgen Alpaydin, Elvan Keles, Sevgi Ozalevli</td>
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<td>PA951</td>
<td>Health status in COPD according to short physical performance battery summary score</td>
<td>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</td>
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<td>PA952</td>
<td>Feasibility and benefits of an innovative airway clearance device in COPD patients hospitalized for acute exacerbation</td>
<td>Ivan Solovic (Vysne Hagy, Slovakia), Alena Bodnarova, Laurent Morin</td>
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<td>PA953</td>
<td>The impact of walking behind the patient on six-minute walk test distance in chronic obstructive pulmonary disease: a randomized cross-over study</td>
<td>Thomas Riegler (Heiligenschwendi, Switzerland), Anja Frei, Sarah R. Haile, Thomas Radtke</td>
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<td>PA954</td>
<td>Comparison of high-flow oxygenation to noninvasive ventilation in COPD exacerbation</td>
<td>Atefeh Fakharian (Tehran, Islamic Republic of Iran), Abbas Rezaee, Hamidreza Jamaati, Esmail Eidi, Atefeh Abedini, Fariba Ghorbani</td>
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<td>PA955</td>
<td>Need of help for activities of daily living in patients with mild to severe COPD: Who helps, with what and how much?</td>
<td>Ulla Møller Weinreich (Ålborg, Denmark), Rina Juel Kaptajn, Tina Helle</td>
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<td>PA956</td>
<td>Measuring the experience of living with COPD and receiving medical care in people with COPD</td>
<td>Marcia A Jones (Leicestershire, United Kingdom), Rachael A Evans, Neil J Greening, Michael C Roberts, Nicole Toms, Matthew Hodson, Michael C Steiner</td>
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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)

**PA957**
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

**PA958**
Late Breaking Abstract - Overestimation of asthma control and misperception of short-acting β2-agonists (SABA) use among physicians in Poland
Radosław Gawlik (Poland), Grażyna Bochenek, Dorota Brzostek, Wojciech Barg, Grzegorz Brożek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Rafal Dobek, Aleksandra Kucharczyk, Maciej Kupczyk, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Marek L Kowalski

**PA959**
Should maximal mid-expiratory flow (MMEF) be considered more in COPD?
Ridvan Aktan (Balcova (Izmir), Turkey), Sevgi Ozalevli, Aylin Ozgen Alpaydin

**PA960**
High interleukin-33 is associated with acute exacerbation in patients with chronic obstructive pulmonary disease
Chin Kook Rhee (Seoul, Republic of Korea), Kyung Hoon Moon, Kwang Ha Yoo Yoo, Ki-Suck Jung

**PA961**
Long-Term Remission and Changes in the Severity of Asthma over 30 Years - TRAIL Cohort
Oliver Djurhuus Tupper (Søborg, Denmark), Charlotte Suppli Ulrik

**PA962**
Sputum Vitamin D binding protein (VDBP) GC 1S/1S 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 Haitori, Ville Pulkkinen, Hiroshi Iwamoto, Witold Mazur

**PA963**
Association between lung dysfunction and extra-pulmonary factors in young people
Keiko Doi (Ube, Japan), Tsunahiko Hirano, Keita Murakawa, Ayumi Chikamoto, Yuichi Ohtera, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakuwaga, Kazuto Matsunaga

**PA964**
Angiogenic status in patients with chronic obstructive pulmonary disease.
Scherlyne Vanessa Jaimez Diaz (Valencia, Spain), Gustavo Juan Samper, Cristina Sabater Abad, Estrella Fernandez Fabrellas, Esther Verdejo Mengu, Susana Torres, Silvia Calabuig, Ignacio Martinez

**PA965**
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

**PA966**
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 Lampaecht, Pere Almagro, Pablo Martinez Cambor, Marc Miravilles, Mónica Rodríguez Carballera, Inmaculada Alfageme, Ana Sofia Ramirez García-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, Michael Tamm, Hans Hirsch, Michael Tamm, Daiana Stolz

**PA967**
Hyaluronic acid in COPD exacerbations of different etiology
Eleni Papakonstantinou (Thessaloniki, Greece), Leticia Grize, Hans Hirsch, Michael Tamm, Daiana Stolz

**PA968**
Neutrophil-to-lymphocyte ratio and COPD exacerbations in the TIE-study
Jens Ellingsen (Uppsala, Sweden), Christer Janson, Kristina Bröms, Hans Hedenström, Marieann Högman, Karin Lisspers, Björn Ställberg, Andrei Malinovschi

**PA969**
Exacerbation burden in mild asthma: Evidence from the NOVELTY study
Sarwar Muhammad Golam (Göteborg, Sweden), Mohsen Sadatsafavi, Marianna Alacqua, Richard Beasley, J Mark Fitzgerald, Tim Harrison, Rod Hughes, Hanna Müllerova, Jose Maria Olaguibel, Eleni Rapsomaniki, Helen K Reddel, Christer Janson

**PA970**
Increased plasma fibrinogen could predict frequent exacerbations in asthma
Vítima 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
Elnorahon 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, Aly Morice

Pre-congress content

Session 84

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 Panaite, 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 Ballall, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

TriOptimize VII: Improvement of health-related quality of life after 3 months treatment with extra-fine 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 Criece

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 Guascioni, 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 Kawaguchhi, Naoko Sueoka-Aragane, Tomotaka Kawayaama

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 β2-agonist (SABA) use: a post hoc analysis of the EMAX trial
Edward M. Kerwin (Medford, United States of America), Isabelle H. Boucot, Leif Bjerner, 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 (AECOPD): 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 Ballall, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky
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<tr>
<td>PA985</td>
<td>Involvement of airway eosinophilia and airway hyperresponsiveness in management and therapy for COPD</td>
<td>Hiroaki Kume (Sennan, Japan), Masayuki Hojo, Naozumi Hashimoto</td>
</tr>
<tr>
<td>PA986</td>
<td>TREATMENT-RELATED DETERMINANTS OF THE RESPIRATORY MICROBIOME IN COPD</td>
<td>Eduard Monsó (La Garriga, Spain), Kristopher Opron, Oriol Sibila, Rosa Faner, Toni Gabaldon, Lidia Perea, Sara Quero, Alicia Marin, Marisol Dominguez Alvarez, Marian García Núñez, Yvonne J Huang</td>
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<tr>
<td>PA987</td>
<td>Response to inhaled corticosteroids in patients with non-asthmatic eosinophilic bronchitis</td>
<td>Katarzyna Białek-Gosk (Warszawa, Poland), Marta Dąbrowska, Elżbieta M Grabczak, Olga Truba, Aleksandra Rybka-Frączek, Karolina Klimowicz, Rafał Krenke</td>
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<tr>
<td>PA988</td>
<td>Enifentrine added on to tiotropium significantly improves lung function, symptoms and QoL in symptomatic COPD patients regardless of baseline reversibility</td>
<td>Kathleen Rickard (Durham, United States of America), Thomas Bengtsson, Tara Rheault</td>
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<tr>
<td>PA989</td>
<td>Triple therapy de-escalation to dual bronchodilatation in COPD patients: Baseline data from the DACCORD cohort</td>
<td>Heinrich Worth (Cadolzburg, Germany), Roland Buhl, Peter Kardos, Victoria Obermoser, Eva Gückel, Claus F. Vogelmeier, Carl-Peter Criée</td>
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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

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<tr>
<td>PA990</td>
<td>Predictive factors of vitamin D status in southern-mediterranean patients with COPD</td>
<td>Malek Chaabouni (Sfax, Tunisia), Walid Feki, Khansa Chaabouni, Khouloud Abdelmoulelh, Youssef Elloumi, Nadia Moussa, Sameh Msaad, Fatma Makni Ayadi, Samy Kammoun</td>
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<td>PA991</td>
<td>Monitoring COPD patients according to the GOLD 2017 document: systemic and bronchial inflammation.</td>
<td>Patrizia Pignatti (Pavia, Italy), Dina Visca, Francesca Cherubino, Martina Zappa, Laura Saderi, Elisabetta Zampogna, Giovanni Sotgiu, Antonio Spanevello</td>
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<td>PA992</td>
<td>Exploring respiratory rate as a novel health marker in COPD</td>
<td>Grace France (Leicester, United Kingdom), Neil J Greening, Dale Eslinger, Michael C Steiner, Sally J Singh, Mark W Orme</td>
</tr>
<tr>
<td>PA993</td>
<td>Prediction of exacerbation in one-year follow-up of patients with chronic obstructive pulmonary disease</td>
<td>Kristina Tot Vereš (Zrenjanin, Republic of Serbia), Miroslav Ilić, Biljana Zvezdin, Nevena Savić, Ana Milenković Jakić</td>
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<tr>
<td>PA994</td>
<td>Features of differences in clinical anamnestic, functional indicators, and alpha-1-antitripsin, in teenagers with chronic bronchitis, in the gender-age aspect</td>
<td>Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Vasiliy Feodorovich Pyatin, Egor Dmitrievich Mokin</td>
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<td>PA995</td>
<td>Different clinical suspect that brings to the diagnosis of alpha1-antitrypsin deficiency</td>
<td>Stefania Ottaviani (Pavia (PV), Italy), Bruno Balbi, Valentina Barzon, Alice Maria Balderacchi, Alessandra Corino, Davide Piloni, Francesca Mariani, Angelo Guido Corsico, Ilaria Ferrarotti</td>
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<td>PA996</td>
<td>Comparison between tools for measuring breathlessness: cross-sectional observation and predictive properties</td>
<td>Masaaki Kusunose (Obu, Aichi, Japan), Ryo Senda, Ayumi Narita, Koichi Nishimura</td>
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<td>PA997</td>
<td>Opioid prescription for severe chronic breathlessness to hospitalised patients with COPD - a clinical audit</td>
<td>Xin Yee Chen (Melbourne, Australia), Natasha Smallwood</td>
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<tr>
<td>PA998</td>
<td>Using pharmacy sales data to estimate treated COPD prevalence in Portugal</td>
<td>António T. Rodrigues (Portugal), Mariana Romão, Rüben Pereira, Heudtlass Peter, Agostinho Marques, Luís Rocha, João Cardoso, José Alves</td>
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<td>PA999</td>
<td>Differences in health related quality of life among caregivers of COPD patients according to the level of perceived burden</td>
<td>Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martínez, Viridiana Peláez Hernández, Dulce Gonzales Islas, Arturo Orea Tejeda, Karen Santillán Reyes, Karla Rosales Castillo, Guadalupe Lizzbett Luna Rodriguez, Valeria Martínez Vázquez</td>
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<tr>
<td>PA1000</td>
<td>Sex differences in chronic respiratory failure patients users of long-term oxygen therapy</td>
<td>Nouha Guediri (Tunis, Tunisia), Jihene Ben Amar, Haifa Zaibi, Besma Dhahri, Hichem Aouina</td>
</tr>
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Association of Metabolic Syndrome with the severity of Chronic Obstructive Pulmonary Disease
Javeria Shaikh (Karachi, Pakistan), Nisar Ahmed Rao

PROMS and FEV1 as predictors of AECOPD
George Drivas (Athens, Greece), Georgios Hillas, Anastasia Papaporfyriou, Maria Kaponi, Katerina Dimakou

Does smoking affect nutritional status and renal function in patients with COPD?
Olha Boiko (Dnipro, Ukraine), Viktoriia Rodionova

Stratifying COPD patients by cluster analysis using clinical and behavioral variables
Cathelijne van Zelst (Rotterdam, Netherlands), Lucas Goossens, Maureen Rutten-Volken, Johannes In ’T Veen

Atherosclerosis of the brachiocephalic arteries in healthy smokers and patients with COPD
Vera Nevzorova (Vladivostok, Primorsky Krai, Russian Federation), Elena Kondrashova, Dmitriy Bogdanov, Tatiana Khairzamanova

Is anemia associated with readmission risk in severe acute exacerbation of COPD: Preliminary results from a naturalistic cohort
Saliha Selin Ozuygur (Izmir, Turkey), Aylin Ozgen Alpaydin, Selin Ercan, 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 Barbára

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

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 (Sremska Kamenica, Republic of Serbia)

Do doctors really use COPD Guidelines? A short adherence to guidelines survey
Radu Adrian Crisan-Dabija (Iasi, Romania), Raluca Arcana, Cristina-Elena Mitrofan, Oana Rohozneanu, Andrei Cernomaz

Floppy eyelid syndrome in Obstructive Sleep Apnea: Diagnosis and Post-CPAP changes
Maria João Silva (Torres Novas, Portugal), Maria João Vieira, Cláudia Santos, Nádia Lopes, Fausto Carvalheira, João Paulo Sousa, Salvato Feijó

Identifying patient suitability for lung volume reduction - estimation of gas trapping from spirometry.
Amany Fathy Elbehairy (Alexandria, Egypt), Jennifer Quint, Simon Jordan, Michael I. Polkey, Nicholas S. Hopkinson

Clinical problems of comorbidity from a position of COPD and carbohydrate metabolism disorders
Vyacheslav Kobylansky (Moscow, Russian Federation), L. Morgunov, O. Povarova

Chronic obstructive pulmonary disease (COPD) and myocardial ischemia (MI) comorbidity
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Constantin Martiniciu, Ion Sirbu, Svetlana Nichita, Ecaterina Luca, Irina Cosciug, Nelea Ghicavii, Nicolae Bodrug, Sergiu Matcovschi

Sleep quality assessment in chronic obstructive pulmonary disease
SONYA JRAD (Tunis, Tunisia), Imen Bachouch, Nidhal Belloumi, Rachid Smaoui, Mariem Hamdi, Donia Belkhir, Fatma Chemiti, Soraya Fenniche

Impact of steroid therapy on exacerbation of chronic obstructive pulmonary disease with community-onset pneumonia: a multicenter retrospective cohort study
Hiroshi Shiba (Kamogawa City, Japan), Akihiro Shirosita, Yu Tanaka, Akihiro Nishi, Chigusa Shirakawa, Kei Nakashima, Yuki Kataoka

"CHAOS THEORY" IN HEART RATE VARIABILITY TO A FUNCTIONAL TEST IN PATIENTS WITH COPD
Cássia Goulart (São Carlos, Brazil), Camila Brinques, Sabrina Souza, Kamila Mansour, Guilherme Back, Douglas Martins, Audrey Borghi-Silva, Renata Trimer, Andréa Da Silva
| PA 1018 | Defining the role of neutrophil-to-lymphocyte ratio in COPD patients  
Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milec, Vladimir Zugic |
| PA 1019 | Ascending pain pathway function in COPD patients versus healthy controls.  
Maria Granados Santiago (Alcaudete, Spain), Janet Rodríguez Torres, Esther Prados Román, Laura López López, María Montes Ruiz-Cabello, Marie Carmen Valenza |
| PA 1020 | Prevalence and clinical predictors of inhaler discordance in COPD: an observational study  
Hadeer S. Harb (Beni-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim |
| PA 1021 | Very limited impact of chest CT-scan on the management of chronic cough.  
Laurent Guilleminault (Toulouse Cedex, France), Mathilde Descazeaux, Danièle Brouquières, Alain Didier, Marianne Lescouzères, Roger Escamilla |
| PA 1022 | Hospital Stay and Economic Burden in Patients with Chronic Obstructive Pulmonary Disease between 2015 and 2019  
Fen Dong (Beijing, China), Xiaoxia Ren, Ke Huang, Yanyan Wang, Jianjun Jiao, Ting Yang |
| PA 1023 | COPD and respiratory viral infections as risk factors for the development of cardiovascular events  
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Esteban-Lucia, Ainhoa Izquierdo Pérez, Luis Nieto Roca, Ana Maria Venegas Rosalio, Camila Sofia Garcia-Talavera, Ana Maria Pello Lázaro, Alvaro Aceña Navarro, Felipe Villar Álvarez |
| PA 1024 | Role of aerosolized therapy in the incidence of cardiac rhythm disturbances in patients hospitalized with a COPD exacerbation  
Francesca Frassanito (%), Italy), Dejan Radovanovic, Luca Perotto, Silvia Vanni, Davide Raiteri, Maurizio Rizzi, Pierachille Santus |
| PA 1025 | Role of diaphragm dysfunction and nutritional status on dyspnea pathogenesis in patients with COPD.  
Massimo Comune (Torino (TO), Italy), Francesca de Blasio, Alessandro Oliva, Ludwig Garello, Caterina Bucca, Roberto Prota |
| PA 1026 | PSYCHOLOGICAL FACTORS PREDICTIVE OF QUALITY OF LIFE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE  
Karen Aide Santillan Reyes (CDMX, Mexico), Karen Aide Santillan Reyes, Viridiana Peláez Hernández, Laura Arely Martinez Bautista, Karla Leticia Rosales Castillo, Lizzbett Luna Rodriguez, Arturo Orea Tejeda, Casandra Pineda Sánchez, Martha Elena Quintero Martinez, Nathalie Martinez Luna |
| PA 1027 | Relationship between health-related quality of life and cognitive function in patients with cardiorespiratory failure  
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arley Martínez, Viridiana Peláez Hernández, Karen Santillán Reyes, Arturo Orea Tejeda, Karla Rosales Castillo, Guadalupe Lizzbett Luna Rodriguez, Rocío Sánchez Santillán, Valeria Martinez Vázquez, Oscar Martínez Reyna |
| PA 1028 | Evaluation of pain pressure threshold in patients with moderate to severe symptomatic COPD and healthy controls  
Maria Granados Santiago (Alcaudete, Spain), Janet Rodríguez Torres, Esther Prados Román, Laura López López, Maria Montes Ruiz-Cabello, Marie Carmen Valenza |

### Pre-congress content

#### Session 87  
**00:00 - 23:59**

**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

**PA 1029**  
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

**PA 1030**  
Innovative realistic training phantom for all aspects of diagnostic and therapeutic bronchoscopy  
Leander Heisterberg (Tübingen, Germany), Benedikt Mothes, Karl-Ernst Grund

**PA 1031**  
Patients’ experience with and knowledge on clinical trials.  
Aneta Kacprzak (Warszawa, Poland), Dorota Kowalczyk, Joanna Biernacka

**PA 1032**  
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

**PA 1033**  
Obstructive sleep apnea knowledge and attitude among pulmonology training fellows in the Philippines  
Krislyn 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

Pre-congress content Session 88 00:00 - 23:59

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

**Chairs:** Dragan Mijakoski (Skopje, North Macedonia), Rakhee Sodhi Khanduri (Dehradun (Uttarakhand), India)

- **PA1035** 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

- **PA1036** Chronic obstructive pulmonary disease with preserved lung function, severe hypoxemia and emphysema
  Vivien Danielo (Strasbourg, France), Benjamin Coiffard, Marianne Riou, Benjamin Renaud Picard, Matthieu Canuet, Romain Kessler

- **PA1037** Variation of maximal respiratory static pressures in different COPD severity group
  Ferdaous Yangui (La Marsa, Tunisia), Khouloud Chaabi, Hela Cherif, Soumaya Debbiche, Mariem Triki, Ihsen Ktif, Mohamed Ridha Charfi

- **PA1038** 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

- **PA1039** Spirometry and cardiopulmonary exercise test in lung resection surgery
  Nozha Ben Salah (Tunis, Tunisia), Hana Mrassi, Hana Blibech, Houda Snen, Line Kaabi, Donia Belkhir, Asma Zaafouri, Nadia Melhir, Bechir Louzir

- **PA1040** The change of the activity of the blood-salivary barrier (BSB) in patients with COPD

- **PA1041** Can reversibility determine clinical course in patients with COPD?
  Kostiantyn Dmytriev (Vinnytsia, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytriev, Maria Shostatska

- **PA1042** Study over chronic obstructive pulmonary disease patients with hypercapnic respiratory failure
  Gabriela Jimborean (Targu Mures (Mures), Romania), Edith Simona Ianosi, Lehel Mathe, Mioara Szatmary

- **PA1043** “Smoking” vs “non-smoking” COPD: how dramatic is the difference?
  Kostiantyn Dmytriev (Vinnytsia, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytriev, Maria Shostatska

- **PA1044** 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

- **PA1045** 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 Dadas, Barış Yılmaz, Hasibe Erten, Merve Hörmet, Güzide Tomas, Eylem Tuncay, Sinem Güngör, Özlem Moçin, Nalan Adigüzel, Gökay Güngör, Zuhal Karakurt

- **PA1046** COPD mortality after severe exacerbations
  Irene Bocigas Huescar (Valencia, Spain), Lucia Fernández Presa, Carolina Lahosa, Cruz Gonzalez, Juan Antonio Carbonell, Jaime Signes-Costa

- **PA1047** 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 Abdelouache, Samy Kamoun

- **PA1048** Which one is superior in predicting 30 and 90 days mortality after COPD exacerbation: DECAF, CURB-65, PSI, DOSE, BAP-65
  Gûlistan Karadeniz (Izmir, Turkey), Mine Gayaf, Filiz Güldaval, Gülru Polat, Merve Türk
**PA1049**  
**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 Matsumiya

**PA1050**  
**Study of heart rate variability in patients with chronic obstructive pulmonary disease**  
Umida Kamilova, Sobir Toshev, dilnoza tagaeva

**PA1051**  
**Evaluation Of Vitamin B12 and D, Folic Acid and Homocystein Levels In Stable COPD Patients**  
Muzaffer Onur Turan (Izmir, Turkey), Nurhan Sarioğlu, Pakize Ayse Turan, Özer Özdemir, Nevin Fazlıoğlu, Mehmet Köseoglu, Hayat Özkaynak, Özgür Güney, Arzu Mirci

**PA1052**  
**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

**PA1053**  
**Evaluation of 30 and 90 Day Hospital Readmission Rates in Severe COPD Exacerbations: Turkish Thoracic Society COPD Assembly**  

**PA1054**  
**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 Aizpiri, Maria Gorordo, Inmaculada Arostegui

### Pre-congress content - Session 89  
**00:00 - 23:59**

**E-poster session: Host-microbe interactions and their influence on lung disease onset and severity**

Disease(s):  
- Airway diseases  
- Respiratory critical care

Method(s):  
- Cell and molecular biology  
- Physiology

**Chairs:** Niki Ubags (Epalinges, Switzerland), Debby Bogaert (Edinburgh, United Kingdom)

**PA1055**  
**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

**PA1056**  
**LSC - 2020 - Streptococcus pneumoniae induces broad alterations in mitochondrial functions in human airway epithelial cells**  
Mahyar Aghapour (Magdeburg, Germany)

**PA1057**  
**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

**PA1058**  
**Analysis of defective phagocytosis in COPD using super-resolution microscopy and automated bacterial quantification**  
Riccardo Wysozczanski (Cambridge, United Kingdom), Jonathan R Baker, Peter Fenwick, Edwin Garcia, Sunil Kumar, Mark A A Neill, Christopher Dunsby, Paul M W French, Peter J Barnes, Louise E Donnelly

**PA1059**  
**Immunosuppression by cyclosporine A facilitates higher parainfluenza 3 virus replication in lower respiratory tract tissue ex vivo**  
Olga Danov (Hannover, Germany), Leonie Hose, Patrick Zardo, Peter Braubach, Danny Jonigk, Hans-Gerd Fieguth, Gregor Warnecke, Sabine Wrone, Armin Braun, Katharina Sewald

**PA1060**  
**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

**PA1061**  
**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

**PA1062**  
**Relationship of the secretory immunoglobulin A (sIgA) and cortisol in pregnant women with chronic simple bronchitis associated with cytomegalovirus infection (CMV I)**  
Igor N. Gorikov (Blagoveschensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Victor P. Kolosov, Leonid G. Nakhamchen, Natalia A. Ishutina, Inna V. Dovzhikova
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<tr>
<td>PA1064</td>
<td>Aassessment of innate immunity mediators in the lung of COPD patients: relation with disease manifestations</td>
<td>Simonetta Baraldo (Padova (PD), Italy), Paolo Casolari, Matteo Bonato, Nicol Bernardinello, Luca Morandi, Marina Saetta, Alberto Papi, Marco Contoli</td>
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<tr>
<td>PA1065</td>
<td>Macrophages in lung and innervating ganglia express TLR7 and release nitric oxide</td>
<td>Becky Proskocil (Portland, United States of America), Allison Fryer, David Jacoby, Matthew Drake</td>
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<tr>
<td>PA1066</td>
<td>Using mouse tracheal epithelial cells (mTECs) to uncover an antiviral role for BPIFB1.</td>
<td>Abdulaziz Alkhoshaihan (Sheffield, United Kingdom), Priyanka Anujan, Lynne Bingle, Colin Bingle</td>
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<tr>
<td>PA1067</td>
<td>Analysis of adaptive CD8+ T cell responses to Influenza A Virus in COPD patients</td>
<td>Sophia Haines (Munich, Germany), Ilona Kammerl, Thomas Meul, Andreas Moosmann, Thomas Hofer, Elfriede Nössner, Marion Frankenberg, Jürgen Behr, Katrin Milger-Kneidinger, Silke Meiners</td>
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<td>PA1068</td>
<td>Interferon responses are dysfunctional in the epithelium of COPD Patients</td>
<td>Rassin Lababidi (Oxford, United Kingdom), Jennifer Cane, Mona Bafadhel</td>
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<tr>
<td>PA1069</td>
<td>Analysis of adaptive CD8+ T cell responses to Influenza A Virus in COPD patients</td>
<td>Sophia Haines (Munich, Germany), Ilona Kammerl, Thomas Meul, Andreas Moosmann, Thomas Hofer, Elfriede Nössner, Marion Frankenberg, Jürgen Behr, Katrin Milger-Kneidinger, Silke Meiners</td>
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<tr>
<td>PA1070</td>
<td>Sputum macrophages in chronic bronchitis are activated, steroid resistant and drive epithelial MUC5B</td>
<td>Melker Göransson (Mölndal, Sweden), Kristina Andelid, Anders Andersson, Karolina Ost, Zala Rojnik, Lowe Vanfleteren, Stephen Delaney</td>
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<td>PA1071</td>
<td>A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in chronic obstructive pulmonary disease (COPD) lungs</td>
<td>Isabelle Dupin (Bordeaux, France), Edmée Eyraud, Elise Maurat, Pierre Vallois, Cécile Contin-Bordes, Pierre-Olivier Girodet, Matthieu Thumerel, Patrick Berger</td>
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<tr>
<td>PA1072</td>
<td>Improving automated cell recognition of sputum and BAL cells for Chipcytometry analysis</td>
<td>Saskia Carstensen (Hannover, Germany), Olaf Holz, Jens M. Hohlfeld, Bodo Rosenhahn, Meike Mueller</td>
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**Pre-congress content**

**Session 90**

**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), Chair to be confirmed

| PA1073  | Whole exome sequencing (WES) of a Chinese Han family with familial pulmonary sarcoidosis | QIAN ZHANG (BEIJING, China), QIAN ZHANG, Hui Huang, Zuojun Xu |
| PA1074  | Whole Exome Sequencing study in a subgroup of sarcoidosis patients presenting an opportunistic infection with Cryptoccus neoformans. | Alain Calender (Lyon, France), Thomas El Jammal, Florence Jeny, Pascal Seve, Hilario Nunes, Dominique Valeyre, Yves Pacheco |
| PA1075  | Homozygous mutations of ARFGAP1 gene in severe sarcoidosis | Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Pascal Sève, Yves Pacheco |
| PA1076  | Association of HLA variants with sarcoidosis in Korean population: pilot study | Martin Petřek (Oломouc, Czech Republic), Kateřina Sikorová, Miae Kim, Veronika Žižková, Su-Jin Moon, Jin Woo Song |
| PA1077  | 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 Chrysiskos, Aris Anagnostopoulos, Kuriaki Cholidou, Evangelia Koukaki, Matthaios Katsaras, Vassiliou Tzilas, Katerina Dimakou, Demosthenes Bouros, Argyrios Tzouvelakis |
Increased fraction of small round lymphocyte in BALF is a diagnostic indicator for sarcoidosis
Yasushi Horimasu (Hiroshima, Japan), Kakuhiro Yamaguchi, Shinjiro Sakamoto, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Hiroshi Iwamoto, Shinichiro Ohshima, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

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 Ganovska, Elena Tibenska, Kinga Szaboova, Ivan Majer, Marian Bobovcak, Imrich Jonner, Maria Bucova

The clinical significance of plasma and urine lysophospholipid-producing enzymes in patients with sarcoidosis
Koji Murakami (Sendai, Japan), Tsutomu Tamada, Daisuke Saigusa, Masayuki Nara, Eisaku Miyauuchi, Hideki Aritake, Shunichi Gamo, Hisatoshii Sugura, Yutaka Yatomi, Masakazu Ichinose

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

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

Differential expression of miRNAs in Exhaled Breath Condensate (EBC) and EBUS-TBNA of patients with Mediastinal Tuberculosis and Pulmonary Sarcoidosis
Bijay Pattnaik (New Delhi, India), Sryma Pb, Saurabh Mittal, Anant Mohan, Anurag Agrawal, Randeep Guleria, Karan Madan

Morphological features in different course of sarcoidosis, forecast opportunity.
Olga Denisova (Tomsk, Russian Federation), Inna Palchikova, Galina Chernjavskaya, Igor Purlik, Tatyana Kalacheva, Georgy Chernogoryuk, Nikolaj Shefer

Flow cytometric analysis of T cells maturation markers in mediastinal lymph nodes in sarcoidosis.
Elżbieta Rutkowska (Józefosław, Poland), Iwona Kwiecień, Joanna Bednarek, Rafał Sokolowski, Karina Jahnz-Różyk, Piotr Rzepecki

Analysis of C4D lymphocyte profiles in sarcoidosis and idiopathic pulmonary fibrosis
Dingyuan Jiang (Beijing, China), Hui Zhang, Huaping Dai, Guowu Zhou, Yanhong Ren, Jing Geng, Bingbing Xie

Activity and phenotypes of angiotensin-converting enzyme (ACE) in sarcoidosis with various organ involvement
Laine Francuzevica (Moscow, Russian Federation), Alexander Bobkov, Larisa Akulkina, Michael Brovko, Victoria Sholomova, Denis Konovalov, Alisa Yanakaewa, Larisa Samokhodskaya, Tatyana 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, Kseniia Ostrovska

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 Pittinca, 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  

ERS 2020 International Congress  
DETAILED PROGRAMME  
MONDAY 24 AUGUST, 2020  

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Pre-congress content

Session 92

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)

PA1100 Frequencies of Regulatory CD8+ T Cells Reflect Disease Status in COPD
Jia Hou (Yinchuan, China), Hui Li, Zhigang Tian, Xiwei Zheng

PA1101 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 Grimbaldston, Christopher Brightling, Mona Bafadhel, Carrie Rosenberger

PA1102 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

PA1103 Associations between eosinophil mediators and asthma characteristics in adults: the EGEA study
vanessa Granger (Paris, France), Farid Zerimech, Jinan Arab, Jinan Arab, Valérie Siroux, Patricia De-Nadai, Anne Tsicopoulos, Regis Matran, Zeina Akiki, Rachel Nadif

PA1104 Obese asthmatics with impaired FRC show increased eosinophilic inflammation
Anna James (Stockholm, Sweden), Lars Andersson, Sven-Erik Dahlén, Apostolos Bossios, On Behalf Of Bioair Study Group

PA1105 The German Severe Asthma Registry: Obesity is associated with asthma parameters
Christina Bal (Wien, Austria), Sabina Skrgat, Andrea Koch, Katrin Milger, Christian Schulz, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko

PA1106 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

PA1107 Sputum IL-26 Is Overexpressed in Severe Asthma and Induces Proinflammatory Cytokine Production and Th17 Cell Generation: A Case-Control Study of Women
Besma Handi (Tunis, Tunisia), Sabrine Louhaichy, Mouna Mlika, Ikbel Khalifallah, Jammel Ammar, Kamel Hamzaoui, Agnes Hamzaoui
**Session 93**  
**00:00 - 23:59**

### Pre-congress content

**E-poster session: Asthma and COPD: How genetic and environment influences its developement?**

**Disease(s):** Pulmonary vascular diseases, Airway diseases  
**Method(s):** Cell and molecular biology, Epidemiology, General respiratory patient care, Pulmonary function testing  
**Chairs:** Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom), Catherine John (Leicester, United Kingdom)

#### PA1118 Associations between allergen-specific IgE sensitization and HLA class II alleles in the EGEA cohort

Valerie Siroux (La Tronche, France), Marie-Louise Debout, Florence Demenais, Frédéric Gourraud, Rachel Nadif, Isabelle Pin, Christophe Pison, Rudolf Valenta, Emmanuelle Bouzigon

#### PA1119 Rhinovirus & IL 33 driven HBE C gene signatures are disease & IL 1R1 polymorphism dependent

Michael Portelli (Loughborough, United Kingdom), Marco Lando, Dominick Shaw, Simon Johnson, Christopher Brightling, Ian Sayers

#### PA1120 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

#### PA1121 Genetic vulnerability to air pollution-related decrease in lung function in elderly women

Sara Kress (Düsseldorf, Germany), Qi Zhao, Anke Hils, Holger Schwender, Klaus Unfried, Tamara Schikowski

#### PA1122 Effect of systemic glucocorticoids on TRPM 8 expression in asthma patients

Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Elizaveta Sheludko, Evgeniya Afanaseva, Juliya Perelman, Yana Gorshakova, Qi Li, Xiangdong Zhou

#### PA1123 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
PA1124  
**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

PA1125  
**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

PA1126  
**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

PA1127  
**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

PA1128  
**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, Tatiana Mal'tseva, Ivana Sugaylo

PA1129  
**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

PA1130  
**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

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**Pre-congress content**

**Session 94**  
00:00 - 23:59

E-poster session: Novel directions in pleural disease: bench to bedside  
**Disease(s):** Thoracic oncology  
**Method(s):** Cell and molecular biology, General respiratory patient care, Imaging, Epigenomics, Physiomics, Pulmonary imaging, Endoscopy and interventional pulmonology, Epidemiology, Palliative care  
**Chairs:** Kevin Blyth (Glasgow (Glasgow), United Kingdom), Duneesha De Fonseka (Sheffield, United Kingdom)

**PA1131**  
**Analysis of circular RNAs expression profile in pleural metastases from lung adenocarcinoma**  
Qiang Xiao, Xi Li, Fu Rong

**PA1132**  
**Utility of LDH-A in the differentiation between lymphocytic pleural effusions of malignant and non-malignant etiology**  
Nevenka Piskač Živković (Zagreb, Croatia), Linda Malnar, Ivona Kovačević

**PA1133**  
**The smellprint of mesothelioma cells: intrinsic biomarkers for diagnosis and subtyping**  
Eline Janssens (Edegem, Belgium), Elly Marcq, Lore Vandermeersch, Christophe Walgraeve, Jan Van Meerbeeck, Kevin Lamote

**PA1134**  
**The role of fibrocyte-like cells in combination treatment of immune checkpoint inhibitor with antiangiogenic agents**  
Atsushi Mitsuhashi (Tokushima, Japan), Tania Afroj, Atsuro Saito, Kenji Otsuka, Hiroto Yoneda, Kazuya Koyama, Masamichi Sugimoto, Osamu Kondoh, Hiroshi Nokihara, Yasuhiko Nishioka

**PA1135**  
**Effect of primary cilium-associated genes expression on the survival of mesothelioma patients: In silico investigation of TCGA data.**  
Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis

**PA1136**  
**Potential role of ADAM (A Disintegrin And Metalloprotease) in malignant pleural mesothelioma resistance to chemotherapy.**  
Marine Belfroid (Belgium), Christelle Sépult, Celine Vanwinge, Alison Gillard, Bernard Duysinx, Christophe Poulet, Ahmed Debit, Agnes Noel, Didier Cataldo

**PA1137**  
**Measurement of Natural antibodies (NAbs) against actin, DNA and trinitrophenol in the fluid of pleural effusion patients with various etiologies**  
Sotiros Zarogiannis (Larissa, Greece), Ioannis Sarrigeorgiou, Ourania Kotsiou, Erasmia Rouka, Garyfallia Perlepe, Konstantinos Gourgoulianis, Peggy Lymberi

**PA1138**  
**The UK timed diagnostic lung cancer pathway: a pleural disaster**  
Avinash Aujayeb (Newcastle, Mauritius), Karl Jackson
**PA1139**  
**MULTIDISCIPLINARY APPROACH IN THE EVALUATION AND MANAGEMENT OF PATIENTS WITH MALIGNANT PLEURAL MESOTHELIOMA. A SINGLE CENTER EXPERIENCE.**  
Giulia Maria Stella (Pavia (PV), Italy), Claudio Valizia, Laura Saracino, Francesco Agustoni, Emma Pozzi, Pietro Rinaldi, Cristiano Primiceri, Matteo Bosio, Patrizia Morbini, Chandra Bortolotto, Angelo Corsico

**PA1140**  
**Influence of psychological distress on symptom burden of patients admitted by malignant pleural effusion**  
Janet Rodriguez Torres (Granada, Spain), María Granados Santiago, Alejandro Heredia Ciuró, Esther Prados Román, Ascensión Rodríguez Rodríguez, Marie Carmen Valenza

**PA1141**  
**In patients with treatment-sensitive cancers, does systemic anti-cancer therapy increase the chance of malignant pleural effusion control?**  
Nina Holling (Bristol, United Kingdom), Sonia Patole, Andrew Medford, Nick Maskell, Anna Bibby

**PA1142**  
**Moving forward from Chest Radiography to bedside Ultrasonography for the detection of Pneumothorax. Time to Re-think?**  
Dimitris Lioumpas (Athens, Greece), Thrasyoulos Michos, Athanasios Kleontas, Efstatios Metaxas, Stylianos Zaragkas, Ionnis Stamatakos, Nandia Fili, Ilias Samiotis, Kostantinos Bouboulis, Nikolaos Tzatzadakis

**PA1143**  
**Pleural pointillism and early contrast enhancement as imaging biomarkers of pleural malignancy**  
Selina Tsim (Glasgow (Glasgow), United Kingdom), Gordon W. Cowell, Geoffrey Martin, Laura Alexander, Caroline Kelly, Rosemary Woodward, John E. Foster, Kevin G. Blyth

**PA1144**  
**Isolated pleural thickening referred to pulmonologists - challenges and diagnosis**  
Philip Evans (Carmarthen, United Kingdom), Emma Shiels, Alina Ionescu

**PA1145**  
**Computed tomography evidence of lymphangitis associated to malignant pleural effusion: its prevalence and impact on survival**  
Olalla Castro Añón (Lugo, Spain), Alexandra Ducina, Rachel Mercer, Eihab Bedawi, Vinneth George, David McCreacken, Rachelle Asciak, Maged Hassan, Rob Hallifax, Nicole Russel, Francisco Rodrigue-Panadero, Najib M Rahman

**PA1146**  
**Clinical long-term outcome of non-specific pleuritis (NSP) after surgical or medical thoracoscopy**  
Valentine Mismetti (Saint Etienne, France), Georgia Karpathiou, Stavros Anevitis, Olivier Tiffet, Francois Casteillo, Paschalis Ntoliou, Tiffany Trouillon, Michel Peoc’h, Marios E. Froudarakis

**PA1147**  
**Mesothelioma is associated with ipsilateral thoracic muscle loss**  
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

**PA1148**  
**Efficacy of Pleurodesis and EGFR TKI in the Treatment of Lung Cancer-mediated Pleural Effusion with EGFR Mutation**  
Kunlin Li (Chongqing (Chongqing), China), Qian Zhao, Peng Zhang

**PA1149**  
**Sensitivity of PD-L1 analysis from pleural effusion in non-small cell lung cancer**  
Simon Dominik Herkenrath (Köln, Germany), Lars Hagmeyer, Marcel Treml, Sandhya Matthes, Kerstin Richter, Khoosro Hekmat, Matthias Heldwein, Stephan Schäfer, Reinhard Büttner, Marianne Engels, Winfried Randerath

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**Pre-congress content**  
**Session 95**  
00:00 - 23:59

**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

**PA1150**  
**Lymphocyte count as an early marker for severe bronchiolitis**  
Luigi Matera (Frasno Telesino Bn, Italy), Raffaella Nenna, Antonella Frassanito, Ambra Nicolai, Laura Petrarca, Enrica Mancino, Greta Di Mattia, Domenico P. La Regina, Elio Iovine, Annota Apicella, Vincenzo Ferraro, Fabio Midulla

**PA1151**  
**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 Ozcélk, Nural Kiper

**PA1152**  
**Discovering the molecular determinant 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-Shueing, Chan, Ting Fan, Leung, Wan Yi, Renee, Chan
PA1153  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

PA1154  Ultrasound pneumonia dimensions in children and inflammation
Ioana Mihaielea Ciucu (Timisoara (Timis), Romania), Monica Marc, Flavius Nicolae Mircov, Mihaela Dediu, Liviu Pop

PA1155  Effect of point-of-care lung ultrasound on treatment outcomes in children: A systematic review
Justus Simba (Thika, Kenya), Ian Sinha, Patrick Mburugu, Musa Kaleem, Caren Emadau, Krishna Harave, Helen Nabwera

PA1156  To document pneumonia case management practices in selected communities in Pakistan; a qualitative study.
Hana Mahmood (Pakistan), Hira Kiani, Yahya Sheraz, Tabish Hazir

PA1157  Paediatric necrotizing pneumonia: single tertiary center experience
Salma Gamal Abdelhady (Cairo, Egypt), Eman Fouda, Amira Moharram

PA1158  Evaluation of noncystic fibrosis bronchiectasis: six-year single center experience
Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Nazan Çobanoğlu

PA1159  The clinical and microbiological features of PBB in children and the risk factors for chronic bronchitis development
Svetlana Ilchenko (Dnepr, Ukraine), Anastasiia Fialkovska, Svitlana Ivanus

PA1160  Growth faltering predicts protracted bacterial bronchitis in children with chronic cough
Ishani Ghosh (Blackpool, United Kingdom), Caroline Beardsmore, Helen Beckett, Manjith Narayanan

PA1161  Heterogeneity of children with protracted wet cough according to results of cluster analysis
Evgenii Furman (Perm (Perm Krai), Russian Federation), Elena Mazunina, Tatyana Evesenkovka, Valerii Sheлюд

PA1162  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

PA1163  Assessment of risk factors for the formation of polyorgan tuberculosis in children infected with MBT
Anna Mordyk (Omsk, Russian Federation), Nadejda Porceulovich

PA1164  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

PA1165  Neutrophil Extracellular Traps (NETs) increase mucus viscoelasticity
Rosalie S.N. Linssen (Amsterdam, Netherlands), Guihong Chai, Jonathan Ma, Apparao Kummarapurugu, Job B.M. Van Woensel, Remy A. Bem, Logan Kaler, Gregg Duncan, Lei Zhou, Bruce K. Rubin, Qingguo Xu

PA1166  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), Natalja Alyabyeva, Ekaterina Brzhozovskaya, Olga Shamina

Pre-congress content  Session 96  00:00 - 23:59

E-poster session: Respiratory physiology and sleep: new approaches to diagnosis and treatment

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

Chairs: Athanasios G. Kaditis (Athens, Greece), Kathryn Ramsey (Bern, Switzerland)

PA1167  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

PA1168  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

PA1169  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
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

Outcome differences in multiple-breath washout devices are explained primarily by sensor characteristics
Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreich, Kathryn Ramsey, Philipp Latzin

FIREFISH Part 2: Efficacy and safety of risdiplam (RG7916) in infants with Type 1 spinal muscular atrophy (SMA)
Giovanni Baranello (London, United Kingdom), Giovanna Baranello, Laurent Servais, Riccardo Masson, Maria Mazurkiewicz-Bedzińska, Kristy Rose, Dmitry Vlodavets, Hui Xiong, Edmar Zanoteli, Muna El-Khairi, Sabine Fuerst-Recktenwald, Marianne Gerber, Ksenija Gorni, Heidemarie Kletzl, Renata Sealeo, Basil T. Darras

Ventilation inhomogeneity and exercise capacity in children with BPD and CF
Elpis Hatziagorou (Thessaloniki, Greece), Eleana Kouroukli, Kosmas Sarafidis, John Tsanakas

Reference range for oscillometry in healthy South African preschool children
Shaakira Chaya (Mokopane, South Africa), Rae Macginty, Carvenn Jacobs, Zoltán Hantos, Shannon Simpson, Heather Zar, Diane Gray

Investigation of Cardiovascular System Findings and Affecting Factors Before and After Adenotonsillectomy Operation in Children with Obstructive Sleep Apnea Accompanied by Adenotonsillar Hypertrophy

Comparison of Impulse Oscillometry With Spirometry in Patients With Non Cystic Fibrosis Bronchiectasis
Cansu Yılmaz Yegit (Istanbul, Turkey), Pakize Cennetoglu, Pinar Ergenekon, Ela Erdem Eralp, Yasin Gökdemir, Bulent Karadag

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 Torre-Bouscolet, Rogelio Pérez

Long-term course of lung clearance index among patients with cystic fibrosis
Elpis Hatziagorou (Thessaloniki, Greece), C Mantsiou, I Lialias, P Talimtzi, L Nousia, S Kirvassili, J Tsanakas

Validity of a home respiratory polygraphy (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, María Angeles Martínez, María Jose Jurado, Félix Pumarola, Milagros Merino, Carmen Martínez, Carmen Luna, Alvaro Gimeno, Santiago Juarros, Milagros Del Rio, Teresa Gómez, María Ángeles Villar, Silvina Mónica Terceros, David Gozal, Leyla Gozal, Joaquín Durán

Sleep related hypoventilation: should the paediatric definition be revised?
Rosário Ferreira (Lisbon, Portugal), Ana Lemos, Lia Oliveira, Ângela Drago, Andreia Descaço

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, Dalia Kraiche, Sonia Khirani, Mathilde Meot, Damien Bonnet, Brigitte Fauroux

Pre-congress content

Session 97 00:00 - 23:59

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), Chair to be confirmed
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 L UHS K auno Klinikos
Vytautas Ankidavicius (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), J ane Winan te, Kaid Darwiche

Transbronchial lung cryobiopsy may be of value for nonresolving acute respiratory distress syndrome: case series and systematic literature review
Guowu Zhou (, China), Shiyou 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, Gerrina Ruiter, 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 Luctantoni, Sofia Romani, Raffaele Dello Iacono, Sandro Batzella

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 ÇetinKayka

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 Êstaboa, Santiago Juarrros Martinez, Vicente Roig figuerao

Transient interventional bronchus occlusion as a new treatment approach for persistent bronchopleural fistula complicating necrotizing pneumonia in four children
Katharina Schütz (Hannover, Germany), Christoph Happel, Julia Carlens, Carsten Müller, Martin Wetzke, Alexander Backendorf, Gesine banana, Philipp beerbma, Harald Bradman, Nicolaus Schwerk

Outpatient lobar lavage: a novel approach to managing pulmonary alveolar proteinosis
Chanel Kwo (Ottawa (ON), Canada), Kayvan Amjadi

Airway foreign body removal using flexible bronchoscopy in children
Sabrine Louhaichi (Ariana, Tunisia), Ikbel Khalfallah, Besma Hamdi, Asma Allouche, Alaa Radhouani, Jalel Ammar, Taher Meziri, Agnés Hamzoua

Is it Time for Endobronchial Therapy to Replace Surgery in the Treatment of Typical Endobronchial Carcinoid?
Alma Teferici (Tirana, Albania), Eritjan Tashi, Ilir Peposhi, Daniela Xhemalaj, Fahri Kocie, Perlat Kapisyzi

Endobronchial autologous blood patch for treatment of persistent air leak. A simple and accessible technique to treat peripheral broncho-pleural fistula.
Hasan Allah Sadeghi (Tehran, Islamic Republic of Iran)
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<td>Feasibility and safety of endoscopic microwave ablation for malignant central airway obstruction: a case series.</td>
<td>Michał Senitko (Flowood, United States of America), George Abraham</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 poloidal bacterial lystate 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 Polonioato, Matteo Stocchero, Giuseppe Giordano, Stefania Zanconato, Eugenio Baraldi</td>
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<td>Prescribing patterns of antiasthma medication in children and adolescents in primary care in France</td>
<td>Véronique Houdoun (Paris, France), Isabelle Naiim, Aya Ajrouche, Florence Tubach, Sylvie Guillo, Yann De Rycke, Florentia Kagueldiou</td>
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<td>98</td>
<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>98</td>
<td>Identification of disease-specific molecular breath profiles in patients with allergic asthma</td>
<td>Ronja Weber (Männedorf, Switzerland), Srdjan Micic, Bettina Streckenbach, Lara Welti, Tobias Bruderer, Nathan Perkins, Demet Inci, Jakob Usemann, Alexander Möller</td>
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<td>98</td>
<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>98</td>
<td>Cord blood Interleukin-13 and IFN-Gamma levels as Biomarkers of Ever-Wheezeing in the First Year of Life</td>
<td>Ozge Yılmaz (Manisa, Turkey), Adem Yaşar, Pınar Ay, Arzu Çalışkan Polat, Ferhan Odabaşı Cingöz, Tunç Alkin, Fatma Taneli, Solmaz Hasdemir, Yurda Şimşek Başıbay, Hasan Yüksel</td>
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<td>Elevated Serum KL-6 in Pediatric Asthma Exacerbation: a Proof of Alveolar Injury</td>
<td>Iman H. Draz (Cairo, Egypt), Iman A. Shaheen, Eman Youssef</td>
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<td>Functional status of ciliated epithelium in children with mild, moderate, and severe asthma</td>
<td>Irina Ozerskaia (Moscow, Russian Federation), Natalia Geppe, Ulyana Malyavina</td>
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<td>98</td>
<td>Associations of serum cytokine levels with asthma, wheeze and allergic rhinitis symptoms in 5-years old children: a population-based study</td>
<td>Isabella Annesi Maesano (Paris, France), Giancarlo Pesce, Nicola Glaiachenhus</td>
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<td>98</td>
<td>Changes in nitric oxide (NO) cycle metabolites in children with mild asthma (BA) receiving STEP-2 therapy</td>
<td>Mary Glukhova (Moscow, Russian Federation), Natalia Geppe, Svetlana Soodaeva, Igor Klimanov, Natalia Kolosova</td>
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**Pre-congress content**
The pro-resolving lipid mediator lipoxin A4 inversely correlates with proinflammatory chemokines and identifies a subgroup of asthma patients with disease progression

Isabell Ricklefs (Lübeck, Germany), Louisa Schäfer, Nadine Weisheimer, Markus Weckmann, Dominik Thiele, Inke König, Erika Von Mutius, Gesine Hansen, Klaus Rabe, Matthias V. Kopp

Pre-congress content  Session 99  00:00 - 23:59

E-poster session: Respiratory physiology and sleep: what is new?

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

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

**Chairs:** Enrico Lombardi (Florence, Italy), Monique Slaats (Edegem (Antwerp), Belgium)

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**PA1220**

The pro-resolving lipid mediator lipoxin A4 inversely correlates with proinflammatory chemokines and identifies a subgroup of asthma patients with disease progression

Isabell Ricklefs (Lübeck, Germany), Louisa Schäfer, Nadine Weisheimer, Markus Weckmann, Dominik Thiele, Inke König, Erika Von Mutius, Gesine Hansen, Klaus Rabe, Matthias V. Kopp

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**PA1221**

Spirometry and air-trapping quantified by chest computed tomography in children with bronchiolitis obliterans syndrome following allogeneic hematopoietic stem cell transplantation

Athanasios G. Kaditis (Athens, Greece), Dimitrios Moutafidis, Maria Gavra, Sotiris GOFinopoulos, Christina Oikonomopoulou, Vasiliki Kitra

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**PA1222**

Breathlessness on exercise: paediatric cardiopulmonary exercise test results

Ridma Jayarathna (Kent, United Kingdom), Thomas Goddard, Charlotte Wells, Samatha Sonnappa

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**PA1223**

Daytime predictors of nocturnal hypercapnic hypoventilation in children with neuromuscular disorders: a threshold for FVC z-score

Megan Frohlich (Narrara (NSW), Australia), John Widger, Ganesh Thambipillay, Arthur Teng, Michelle Farrar, Sandra Chuang

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**PA1224**

End of test (EOT) criteria for spirometry in preschool children

Luciano Enrique Busi (Trelew (Chubut), Argentina), Peter David Sly, Sabrina Gisel Fernández

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**PA1225**

Evaluation of paediatric home oxycapnography for patients with respiratory and complex multisystem disorders

Joe Madge (Leicester, United Kingdom), Molla Imaduddin Ahmed, Prakash Patel, Ben Elkington, Helen Hickey, Louise Mogford, Kay Calvert, Kamini Jain

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**PA1226**

Description of central apnea and periodic breathing in children

Sergio Ghirardo (Trieste, Italy), Alessandro Amaddeo, Sonia Khirani, Lucie Griffon, Brigitte Fauroux

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**PA1227**

Pattern of upper airway obstruction in overweight/obese children with obstructive sleep apnoea and without prior upper airway surgery.

An Boudewyns (Edegem (Antwerp), Belgium), Eli Van De Perck, Kim Van Hoorenhove, Stijn Verhulst, Vera Saldeen, Olivier Vanderveken

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**PA1228**

The impact of treatment with steroids on lung function of children with Duchenne muscular dystrophy: experience from a single centre

Maria Gogou (Katerini, Greece), Evangelos Pavlou, Andreas Giannopoulos, Katerina Haidopoulos

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**PA1229**


Mara Lelii (Milano (MI), Italy), Laura Senatoro, William Morello, Sara Testa, Francesca Taroni, Barbara Madini, Maria Carola Pensabene, Mariannella Lavelli, Maria Francesca Patria

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**PA1230**

Night-to-night variability of polygraphy in children with obstructive sleep apnea

Ela Erdem Eralp (İstanbul, Turkey), Cansu Yılmaz Yeşim, Yasemin Gökdemir, Pınar Ergenekon, Meltem Yılmaz, Pınar Ay, Baran Balcan, Bülent Karadag, Refika Ersu

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**PA1231**

Pulmonary function test results in young athletes and sedentary children

Oleksandr Onikiienko (Kharkiv, Ukraine), Valentyn Polyakov, Ganna Senatorova, Margaryta Gonchar

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**PA1232**

Drug-induced sleep-endoscopy in OSA children: What do we see?

Silke Anna Theresa Weber (Botucatu (SP), Brazil), Antonio Carlos Marão, Jefferson Luis De Barros, Camila Castro Correa

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**PA1233**

Intestinal Microbiota in children with obstructive sleep apnea syndrome

Melania Evangelisti (Roma (RM), Italy), Marta Arpinelli, Manuela Cecili, Marilisa Montesano, Mario Barreto, Marina Borro, Maria Pia Villa

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**PA1234**

Nusinersen stabilises respiratory function in paediatric spinal muscular atrophy

Archana Chacko (Brisbane, Australia), Sean Deegan, Leanne Gauld, Peter Sly

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Central and obstructive apnoea-hypopnea indices pre and post growth hormone commencement in children with Prader-Willis syndrome following introduction of a screening programme
Damilola Modupe Oladele (Southampton, United Kingdom), Hasitha Gajaweera, Johanna Gavlak, Justin Davies, Gary Connet, Hazel Evans

Cut-offs for snoring index in children suspected of obstructive sleep apnea
Nicole Beydon (Paris, France), Claire Le Thai, Fatma Lacin

Sleep disordered breathing in children with Down Syndrome: impact on motor development
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Camila Castro Correa, Karine Silveira Machado, Deuzilene Costa Sousa, Leticia Campos

Pulmonary hypertension and obstructive sleep apnea syndrome - Marmara University pediatric sleep laboratory experience
Cansu Yilmaz Yegit (Istanbul, Turkey), Pinar Ergenekon, Ela Erdem Eralp, Yasemin Gokdemir, Figen Akalin, Ayse Yildirim, Meltem Sabanci, Bulent Karadag

Assessing global and regional pulmonary function with electrical impedance tomography in pediatric patients: the EIT-derived flow-volume loops
Chuong Ngo (Aachen, Germany), Sylvia Lehmann, Eva Verjans, Klaus Tenbrock, Steffen Leonhardt

Polysomnography findings in children with Mucopolysaccharidosis
Dilber Ademhan Tural (Ankara, Turkey), Beste Oezsezen, Birce Sunman, Omer Furuk Ipek, Kubra Kilic, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Nural Kiper, Serap Sivri, Ugur Ozcelik

Pre-congress content
Session 100
00:00 - 23:59

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)

Is the strength of the type-2 (T2) inflammatory biomarker signal important in determining the burden of disease in severe asthma (SA)?
Lauren Fox (Southampton, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Peter Howarth, Anoop Chauhan

Characterisation of the neutrophilic asthma phenotype over time.
Claudia Blouin (Québec, Canada), Krystelle Godbout, Marie-Eve Boulay, Anurag Bhalla, Parameswaran Nair, Louis-Philippe Boulet, Andrèanne Côté

Sex differences in COPD outcome in 5,355 women with COPD: A new analysis of the 3CIA study
Tamara Alonso Perez (Madrid, Spain), Elena García Castillo, Julio Ancocrea, Maria Teresa Pastor Sanz, Perez Almagro, Pablo Martinez Cambor, Marc Miravitlles, Monica Rodriguez-Carballeira, Annie Navarro, Bernd Lamprecht, Ana Ramírez-Garcia Luna, Bernhard Kaiser, Inmaculada Alfage, Ciro Casanova, Cristobal Esteban, Juan J Soler-Cataluna, Juan P De-Torres, Bartolome R Celi, Jose M Marin, Jose L Lopez-Campos, Gerben Ter Riet, Patricia Sobradillo, Andrés Echazarreta, Nicolas Roche, Pierre-Régis Burgel, Don D Sin, Milo A Puhan, Joan B Soriano

Bronchiectasis and airway eosinophilia in severe asthma— is there an association?
Anna von Bülow (Vedbaek, Denmark), Vibeke Backer, Celeste Porsbjerg

The rate of re-exacerbation in patients hospitalized with eosinophil and non-eosinophil COPD relapses
Balázs Csoma (Budapest, Hungary), Andras Bikov, Gergo Szucs, Veronika Muller, Zsofia Lázár

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 Dahlén. 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 Uematsu, Hiroshi Shima, Tatsushi Mizutani, Emiko Ogawa, Shigeo Muro, Susumu Sato, Toyohiro 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, Toyohiro 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 Levi, 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 Schleicht, 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, Pouliakis Avraam, Tsoukalas Georgios, Gama Mina, Papiris Spyridon, Koulouris Nikolaos, Bakakos Petros, 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), Xingwu Zhou, Josefin Sundh, Björn Stållberg, Karin Lisspers, Andrea Malinovschi, Hanna Sandelowsky, Scott Montgomery, Anna Nager, Christer Janson

Using characteristics of asthma phenotypes to determine exacerbation severity
Erik Duijvelaar (Amsterdam, Netherlands), Marijke Amelink, Cristina Longo, Anirban Sinha, Michael Developpe, Anna Nager, Christer Janson

Bioelectrical impedance vector analysis in COPD patients with right heart failure
Raúl Hernández Centeno, (, Mexico), Ilse Pérez García, Dulce González Islas, Arturo Orea Tejeda, Rocio Sánchez Santillan, Leslie Verdeja Vendrell, Martha Elena Quintero Martínez, Eyal Ramiro Gastelum Ayala, Nathalie Martinez Luna, Óscar Ubaldo Martínez Reyna, Valeria Martínez Vázquez, Ameyalli Sandoval Sánchez, Fernando Flores Trujillo, Silvia Sid Juárez, Manuel Gómez Martínez

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 Negri, 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.

Patient and public involvement (PPI) to inform a survey on airways clearance treatments in bronchiectasis.
Katherine O’Neill (Belfast, United Kingdom), Rebecca Mcgrath, 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 Mcgrath, 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 Zanini, Antonella Borruso, Marco Cipolli

Physiotherapy to prevent hospital-acquired pneumonia in patients undergoing hip fracture surgery
Elisabeth Westerdahl (Orebro, Sweden), Anna Stahl

Electrical impedance tomography in the evaluation of effectiveness of chest physiotherapy
Anna Folino (Torino (TO), 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), Claire Fitzgerald, Ema Swingwood

Laryngeal responses and airflow geometry in ALS during mechanically assisted cough
Tiina Andersen (Bergen, Norway), Brit Hov, Ove Fonches, Hege Clemm, Thomas Halvorsen, Ola Oange Raksund, Maria Vollseter

UK survey of current cough augmentation management in patients with motor neurone disease
Rachel Szczechanski (Herries Rd, Sheffield, United Kingdom), Matthew Cox, Molly 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), Lara Bertacchini, Marco Cipolli

Physiological effects of Simeox Airway Clearance Device in healthy adults
Laurent Morin (Aix-en-Provence, France), Damien Mariano, Adrien Mithalal

A pilot study investigating the PlayPhysio device and associated app
Laura Lowndes (Cambridge, United Kingdom), Colin Hamilton, Donna Mcshane

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), Chair to be confirmed

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 Estepar, George Washko, Ravi Kalhan

Validation of the Korean version of the Bronchiectasis Health Questionnaire
Hyunuk Kim (Busan, Republic of Korea), Hyun Lee, Ha Young Choi, Yeon-Mok Oh

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, Noriuki Tashima, Hironobu Sunadome, Toyohiro Hirai
### PA1280

**Prescription of Inhaled corticosteroid in non-cystic fibrosis bronchiectasis: a solution or a problem**  
Soumaya Bouchareb (Ksar Hellal, Tunisia), Imen Touil, Nadja Keskes, Chaima Ben Rhouma, Elia Nemsi, Raja Romdhane, Jalel Knani, Leila Bousoffara

### PA1281

**Analysis of microbiological colonization in COPD patients with or without bronchiectasis**  
Besim Prnjavorac (Tešanj, Bosnia and Herzegovina), Lejla Prnjavorac, Edin Begović, Aida Mujaković, Lejla Šaranović, Edin Begić, Enes Hodžić, Tamer Bego

### PA1282

**Winter is coming - Developing a local weather score to predict chronic respiratory activity**  
David Barber (Warrington, United Kingdom)

### PA1283

**Chronic cough in patients presenting to a tertiary cough clinic**  
Claire Slinger (Clitheroe, Lancashire, United Kingdom), Richard Slinger, Paul Marsden, Cristina Avram

### PA1284

**Comparison of Cough Assessment by Visual and Airflow Changes in the Guinea Pig Model of Citric Acid-Induced Cough.**  
Mary McElroy (Edinburgh, United Kingdom), Laurence Tilley, Kirsten Maclellan, Kirsten Cormack, Louise Cowan, Angela Marsden, James Punton, Aileen Milne

### PA1285

**The anatomy of asthma-related nocturnal cough - a potential new digital biomarker**  
Frank Rassouli (Speicher, Switzerland), Peter Tinschert, Filipe Barata, Claudia Steurer-Stey, Elgar Fleisch, Milo Puhna, Tobias Kowatsch, Martin H Brutsche

### PA1286

**Prevalence of urinary incontinence in women seeking evaluation for chronic cough**  
Peter Dicpinigaitis (New York, United States of America)

### PA1287

**The effect of Octreotide in patients with refractory Chronic Cough**  
Alyn Hugh Morice (Cottingham, United Kingdom), Asmaa Loonat, Caroline Wright

### PA1288

**Pulmonary abnormalities in newly diagnosed rheumatoid arthritis**  
Charlotte Hyldgaard (Åbyhøj, Denmark), Jesper Blegvad, Mette Herly, Dzenan Masic, Brian Logstrup, Bjork Khaliqi, Grazina Urbonaviciene, Frank Andersen, Christin Isaksen, Behrouz Almasi, Torkell Elingesen

### PA1289

**Plethysmographic profile of patients with rheumatoid arthritis (RA): a comparative study between ACPA positive and negative patients**  
Ketfi Abdelbassat (Algérie, Algeria), Djouadi Cherifa, Gharnaout Merzak, Ben Saad Helmi

### PA1290

**Is the unclassifiable obstructive airway more similar to asthma than COPD?**  
Debanya Dey (Kolkata, India), Sayoni Sengupta, Dipanjan Saha, Sikta Mukherjee, Mintu Paul, Parthasarathi Bhattacharyya

### PA1291

**Inflammatory bowel diseases in COPD patients.**  
Antonia Berdyugina (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valery Elykomov, Irina Belova

### PA1292

**A study of hematologic disorders in patients with chronic obstructive pulmonary disease**  
Warritha Limsirisawat (Samutprakarn, Thailand), Pichaya Petborom, Sirapat Tulatamakit, Manaphol Kulpraneet, Suthat Rungrungghiranya, Kanokwan Preedapornpakorn

### PA1293

**Markers of T2-inflammation in patients with severe asthma and concomitant COPD**  
Galina Sergeeva (St. Petersburg, Russian Federation), Alexander Emelyanov, Eugenia Leshenkova, Antonina Znakhurenko

### PA1294

**Predictors of exacerbations in chronic obstructive pulmonary disease - a first single-centre experience in Croatia**  
Davorka Mursic (Zagreb, Croatia), Fran Stjepan Naranda, Ivana Mišovec, Ivona Markelić, Mateja Jankovic Makek, Ana Hecimovic, Visnja Dučić, Miroslav Samarzija, Andrea Vukic Dugac

### PA1295

**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

### 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 Alemayehu (Verona, Italy), Rafael E. de la Hoz (New York, United States of America)

**PA1296**  
**Alteration in the balance between type 1 and type 2 immune responses among lead exposed population**  
Yehia Yasseen Zakaria (Cairo, Egypt)
Quality of life features in patients with asthma in urban and rural areas
Natalia L. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Juliy M. Perelman

Responses in human bronchial mucosa after short-term exposure to wood smoke.
Alva Hansson (Umeå, Sweden), Jamshid Pourazar, Maria Sehlstedt, Gregory Rankin, Robert Lindgren, Christoffer Boman, Anders Blomberg, Annelie F Behndig, Thomas Sandström, Ala Muala

Indoor air pollutants and respiratory outcomes among Pakistani population: A cross sectional survey
Unai Rabbani (Burai dah, Saudi Arabia), Shama Razzak, Peter Burney, Asaad Ahmed Nafees

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

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 Badyda (Warszawa, Poland), Andrzej Chcialowski, Piotr Dąbrowiecki, Adam Stańczyk, Piotr Oskar Czechowski

Pulmonary effects of volcanic air pollution
Melissa Silva-Medina Weil (Cali, Colombia), Mauricio Palacios, Vicente Benavides

Upper respiratory symptoms in children (3-12 years old) exposed on different levels of ambient particulate matter.
Artur Badyda (Warszawa, Poland), Wojciech Feleszko, Aleksandra Ratajczak, Piotr Oskar Czechowski, Adam Czarnecki, Michał Dubrawski, Anna Dąbrowska

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

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 Ixquierdo, Ana Cerezo Hernández, Daniel Álvarez González, Fernando Moreno Torrero, Andrea Crespo Sedano, Jose Ignacio Santos Plaza, Félix Del Campo Matías

Image registration based QCT characterization of the lungs of biomass cooks

COPD exacerbations are related to poor air quality in Innsbruck
Anna Boehm (Innsbruck, Austria), Alex Pizzini, Thomas Sonnweber, Magdalena Aichner, Sabina Sahanic, Ivan Tancevski, Michael Joannidis, Gunter Weiss, Judith Loeffler-Ragg

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

Annoyance from winter atmospheric pollution created from wood burning for heating
Efthimios Zervas (Patra, Greece), Efie Drimili, Zoe Gareiou

RURAL AND URBAN ASTHMA: ARE THEY DIFFERENT?
Christian Eduardo Romero Mesones (Barcelona, Spain), Gelo David Granados Rosales, María Jesús Cruz Carmona, Iñigo Ojanguren Arranz, Miquel De Homde Deu 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
Regian Carvalho Oliveira (São Paulo (SP), Brazil), Luís Fernando Amato-Lourengo, Pamela Souza Almeida, Bianca B.M. García, William 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)
PA1312 Effects of smoking cessation on spirometry in mild to moderate COPD
Sourav Datta (Hooghly, India), Susmita Kundu, Falguni Mandi

PA1313 Does Smoking Cessation affect symptoms and FEV1 in smokers with mild COPD?
Anna Khomenya (Omsk, Russian Federation), Maria Vershinina, Olga Foronosova

PA1314 The impact of smoking habits and secondhand smoke exposure on smoking biomarkers
Raquel Barros (Lisboa, Portugal), Ana Sofia Oliveira, Cristina Bárbara

PA1315 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)

PA1316 Gender characteristics of smokers with COPD.
Elizaveta Volekhova (St. Petersburg, Russian Federation), Olga Sukhovskaya , Olga Titova, Valery Kulikov, Marya Smirnova

PA1317 The prevalence of respiratory symptoms and smoking among young people in Moscow
Maryana Tubekova (Moscow, Russian Federation), Tatiana Bilichenko, Maryana Tubekova

PA1318 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

PA1319 ß-Escin and chokeberry extract diet supplementation in healthy smokers as potential anti-inflammatory and antioxidant protection - a pilot study.
Malwina Soltysiak (Warszawa, Poland), Magdalena Paplińska-Goryca, Katarzyna Koziak, Rafal Krenke

PA1320 Are there any changes in the lung age after the end of the tobacco habit?
Maria Betran Orduña (Zaragoza, Spain), Maria Fernando Moreno, Marta Miranda Hernandez, Teresa Lanzuela Benedicto, Marta Martin Lana, Guillermo Samuel Loscertales Vacas, Virginia Moya Alvarez, Jesus Guzman Aguilar

PA1321 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, Andrei Popov, Ruslan Kochkin

PA1322 Relation Between Respiratory Function, Tobacco Consumption, Exercise Habits, and Sleep Quality in Healthy Young Adult Men
Merve Dinç (İstanbul, Turkey), Kübra Nur Menengiç

PA1323 Smoking habits in high cardiovascular risk patients
Stefan A. Mihaicuta (Timisoara (Timis), Romania), Roxana Maria Pleava, Stefan Frent, Carmen Ardelean, Svetlana Mosteoro, Dan Gaita

PA1324 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

PA1325 Systemic inflammation in COPD in relation to smoking status
Touil Imen (Mahdia, Tunisia), Touil Imen, Keskes Boudawara Nadia, Baccari Mohamed Amine, Nems Elaa, Romdhani Raja, Ben Rhouma Chanina, Knaï Jalel, Bousofara Leila

PA1326 Exposure of Drospophilia melanogaster to cigarette smoke extract changes its sexual behavior.
Sotirios Zarogiannis (Larisa, Greece), Athanasios-Stefanos Giannopoulos, Lydia Giannakou, Natalia Gourgoulianis, Stefan Lüpold, Erasmia Rouka, Rajesh Jagirdar, Eleanna Pitaraki, Chrissi Hatzoglou, Konstantinos Gourgoulianis, Wolf Blanckenhorn

PA1327 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

PA1328 Sleep disturbances as a predictor of smoking cessation
Shadi Amid Hägg (Uppsala, Sweden), Mirjam Ljunggren, Christer Janson, Eva Lindberg

PA1329 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

PA1330 Smoking and alcohol consumption during pregnancy. The situation in Greece
Paraskevi Katsaounou (Athens, Greece), Athina Diamanti, Katerina Lykeridou, Vasilios Raftopoulos
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<td><strong>E-poster session:</strong> Pathophysiology and treatment of obstructive sleep apnoea</td>
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<td>Disease(s):</td>
<td>Sleep and breathing disorders</td>
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<tr>
<td>Method(s):</td>
<td>General respiratory patient care, Epidemiology, Physiology, Cell and molecular biology, Public health</td>
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<td>Chairs:</td>
<td>Chair to be confirmed</td>
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| PA1331 | 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 |

| PA1332 | 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 |

| PA1333 | The role of complement factor H and clusterin in obstructive sleep apnoea |
| Andras Bikov (Budapest, Hungary), Martina Meszaros, Peter Horvath, Zsófia Lazar, David Tarnoki, Adam Tarnoki, Adrian Kis, Laszlo Kunos |

| PA1334 | The role of hyaluronan metabolism in obstructive sleep apnoea |
| Martina Meszaros (Budapest, Hungary), Zsófia Lazar, Adam Domonkos Tarnoki, David Laszlo Tarnoki, Adrian Kis, Laszlo Kunos, Andras Bikov |

| PA1335 | 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, Jully Perelman |

| PA1336 | IFN? involvement in adipogenesis of OSA patients |
| Yan Wang (China), Xiaolei Zhang |

| PA1337 | Association of obstructive sleep apnea hypopnea syndrome with cardiovascular disease: a candidate gene association study |
| Dimitrios Raptis (Larissa, Greece), Fotini Malli, Georgia Rapti, Dimitra Siachpazidou, Chryssoula Maragiannis, Zoe Daniil, Ilias Dimas, Gregory Giamouzis, Chaido Pastaka, Georgia Xiromerisiou, Konstantinos I. Gourgoulianis |

| PA1338 | Socioeconomic factors and adherence to Continuous Airway Pressure - a population-based cohort study |
| Andreas Palm (Gavle, Sweden), Ludger Grote, Mirjam Ljunggren, Josefín Sundh, Jenny Theorell-haglöw, Magnus Ekström |

| PA1339 | CPAP and me: what's wrong? |
| Paolo Righini (Torino (TO), Italy), Valter Gallo, Giovanni Maria Ferrari, Diletta Favero, Alessandro Oliva, Sonia Bassini, Roberto Prota |

| PA1340 | 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 |

| PA1341 | 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 |

| PA1342 | 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 |

| PA1343 | Adherence to Continuous Positive Airways Pressure (CPAP) in mild obstructive sleep apnoea (OSA) |
| Shirley Coelho (Viana do Castelo, Portugal), Richard Glover, Maximilian Thomas, Yasmin Khan, Deyashini Mukherjee, Alain Al Helou, Mindi Daniels, Simon Wharton, Rahul Mukherjee |

| PA1344 | Tele-monitoring system implementation in continuous positive airway pressure therapy in Asian obstructive sleep apnea |
| Worawat Chumpangern (Bangkok, Thailand), Naricha Chirakalwasan |

| PA1345 | Impact in adherence to CPAP treatment of a specific consultation for patients with severe obstructive sleep apnoea |
| Jesús Lancha Dominguez (Huelva, Spain), Maria Morón Ortiz, Roberto Del Pozo Rivas, Byron Enrique Urizar Catalán, Jessica Ivana Hilares Vera |

| PA1346 | 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 |
PA1347  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

PA1348  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, Mohammed Khan, Anthony Johnson

Pre-congress content  Session 106  00:00 - 23:59

E-poster session: Digital health interventions in respiratory medicine
Disease(s) :  Airway diseases  Sleep and breathing disorders  Respiratory critical care
Method(s) :  General respiratory patient care  Epidemiology  Public health  Physiology  Imaging  Pulmonary rehabilitation
Chairs :  Holger Woehrle (Ulm, Germany), Sara Lundell (Umeå, Sweden)

PA1349  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 Lokke, Elisabeth Bendstrup

PA1350  Feasibility of an asthma app to monitor medication adherence
Cristina Isabel Oliveira Jácome (Viadotos, Portugal), Rute Almeida, Rita Amaraal, Ana Margarida Pereira, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Dario Antolin-Amérgio, 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 Arrobos, Margarida Valério, João Cardoso, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Joana Carvalho, Ana Mendes, Carlos Lozoya, Natacha Santos, Fernando Menezes, Ricardo Gomes, Rita Câmara, Rodrigo Rodrigues Alves, Ana Sofia Moreira, Diana Bordalo, Carlos Alves, Didina Coelho, José Alberto Ferreira, Cristina Lopes, Diana Silva, Maria João Vasconcelos, Maria Fernanda Teixeira, Luis Taborda-Barata, Maria José Cálix, Adelaide Alves, João Almeida Fonseca

PA1351  Application of text analytics for identification of respiratory diseases in medical claims
Kameshwar Rao P (Pune, India), Nagesh Dhadge, Pinaki Sengupta, Uday Kelkar

PA1352  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

PA1353  Patient engagement with an asthma app to improve inhaler adherence
Cristina Isabel Oliveira Jácome (Viadotos, Portugal), Rute Almeida, Rita Amaraal, Ana Margarida Pereira, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Ana Arrobos, Margarida Valério, João Cardoso, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Joana Carvalho, Ana Mendes, Carlos Lozoya, Natacha Santos, Fernando Menezes, Ricardo Gomes, Rita Câmara, Rodrigo Rodrigues Alves, Ana Sofia Moreira, Diana Bordalo, Carlos Alves, Didina Coelho, José Alberto Ferreira, Cristina Lopes, Diana Silva, Maria João Vasconcelos, Maria Fernanda Teixeira, Luis Taborda-Barata, Maria José Cálix, Adelaide Alves, João Almeida Fonseca

PA1354  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

PA1355  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

PA1356  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

PA1357  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

PA1358  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

PA1359  Do technologies make a difference in adherence to treatment: instant messaging application use?
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsybaliuk, Andrii Sidorov, Mariia Shoshiatska
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<td>PA1360</td>
<td>Blended care results in an improved adherence of an eHealth Platform by COPD patients</td>
<td>Cathelijne van Zelst (Rotterdam, Netherlands), Esther Van Noort, Niels Chavannes, Hans In ’T Veen, Marise Kasteleyn</td>
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<td>PA1361</td>
<td>A digital inhaler uncovering patterns of SABA use in asthma and COPD</td>
<td>Mark L. Levy (London, United Kingdom), Henry Chrystyn, Guilherme Safioti, Michael Depietro, Randall Brown, Tanisha Hill, Lena Granovska, Michael Reich, Sinthia Bosnic-Anticevich</td>
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<td>PA1362</td>
<td>Mobile games increases knowledge, attitude and positive behaviors of the children with respiratory disorders and their families.</td>
<td>Kazi Raiyan Mahmud (Bangladesh), Kazi Faisal Mahmud, Fatema Zannat, Mostafizur Rahman, Fatema Rafat, Kazi Faiyad Mahmud, Kazi Faihun Mahmud, Rumana Afroze, Nishat Jahan</td>
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<td>PA1363</td>
<td>Real-time monitored patient adherence to an eHealth self-management intervention in patients with COPD and heart failure</td>
<td>Joanne M. Sloots (Enschede, Netherlands), Job Van Der Palen, Mirth Bakker, Michiel Eijsvogel, Gerard Linssen, Paul Van Der Valk, Clara Van Ommeren, Monique Tabak, Tanja Effing, Anke Lenferink</td>
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<td>PA1364</td>
<td>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</td>
<td>Shauna McKibben (London, United Kingdom), Andy Bush, Mike Thomas, Chris Griffiths</td>
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<td>PA1365</td>
<td>RECEIVER trial: positive early experience and sustained patient engagement with a digital service model for COPD management</td>
<td>Anna Taylor (Glasgow, United Kingdom), Anna Taylor, Rebecca Scott, Grace Mc Dowell, Paul McGinness, David Lowe, Chris Carlin</td>
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<td>PA1366</td>
<td>Use of online questionnaires, social networks and messengers for quick collecting epidemiological data among young people</td>
<td>Illya Glivenko (Vinnitsa, Ukraine), Olha Yaroslavska, Anna Demchuk, Vitalii Poberezhets, Yuriy Mostovoy</td>
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<td>PA1367</td>
<td>COPD patient tele-monitoring using interactive questionnaires and electronic patient record</td>
<td>Vitaly Mishlanov (Perm, Russian Federation), Ksenia Bekker, Anastasia Katkova</td>
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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:** Asl Görek Dilektal (Bursa, Turkey), Constantine Vardavas (Heraklion, Greece)

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<td>PA1368</td>
<td>Evaluation of Smoking and Other Tobacco Product Habits of Ege University Faculty of Health Sciences Students: A cross-sectional Survey Study</td>
<td>Alev Gürün (Borova - Izmir, Turkey), Funda Elmas Uysal, Hur Hassoy, Zafer Gündük, Nazmiye Ciray, Isil Ergin, Gunay Anacak, Nurcan Buduneli, Murat Urhan, Volkan Karadağ, Batuhan Ata</td>
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<td>PA1369</td>
<td>Characteristics of hookah smokers according to their dual tobacco products 'cigarettes' use</td>
<td>Dilek Karadogan (Rize, Turkey), Yalcin Kanbay, Ozgur Onal, Deniz Say Sahin</td>
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<td>PA1370</td>
<td>PATTERNS OF TOBACCO USE AMONG SPANISH SECONDARY SCHOOL STUDENTS</td>
<td>Natalia Pascual Martinez (Cordoba, Spain), Silvia Martin Bote, Maria Melgar Herrero, Cristina Gómez Rebollo, Cristina Villalba Moral, Rafael Castro Jimenez</td>
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<td>PA1371</td>
<td>Factors and concepts associated with the start of cigarette smoking in university students</td>
<td>Giovanni Garcia Castro (Pereira, Colombia), Angela Maria Giraldo Montoya</td>
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<td>PA1372</td>
<td>Use of digital technologies for evaluating prevalence of various types of nicotine usage among young people</td>
<td>Viktoria Davydova (Vinnitsia, Ukraine), Tetyana Shypovych, Anna Demchuk, Vitalii Poberezhets, Yuriy Mostovoy</td>
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<td>PA1373</td>
<td>Prevalence of Electronic-cigarette smoking in Thai college student</td>
<td>Chatuthanai Savigamin (Bangkok, Thailand), Jedsadakorn Jitwimungsanon, Thanapoom Rattananupong, Chanchai Sittipunt, Thitiwat Sriprasart</td>
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<tr>
<td>PA1374</td>
<td>Electronic cigarette (ecig) and university students. Prevalence, beliefs and use characteristics.</td>
<td>Santiago Antonio Juarros Martinez (Simancas, Spain), Beatriz Villaeusca Gonzalez, Maria Isabel Munoz Diez, Belen Munoz Diaz, Eva Maria Rueda Dominguez, Milagros Del Olmo Chiches, Maria Jose Chourio Estaba, Lourdes Del Rio Sola</td>
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</table>
Relationship between cigarette advertising exposure, harmful tobacco knowledge and smoking status of the sixth grade elementary school students in Bandar Lampung, Indonesia.
Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Marisa Anggraini, Hetti Rusmini, Fransisca 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 Tushevskas 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, 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 Elykomov

Survey on smoking among students of the medical school of medicine & pharmacy in Agadir-Morocco
Hind Serhane (Marrakech, Morocco), Fatima 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 Migaoou, Saoussen Cheikhmhamed, Maroua Ammar, Safa Ben Khaled, Jihen Aye, Rim Bouguiezz, Hiba Mosbeh, Mohamed Aouina, Samah Joober, Naceur Rouatbi

Frequency and attitudes towards Hated Tobacco Products among medical students - preliminary results.
Paulina Majek (Katowice, Poland), Grzegorz Brozek, Mateusz Jankowski, Bartlomiej Nowak, Maciej Nowak, Piotr Nakiela, Andrzej SWiNarew, 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 Startovoytov, 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)

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

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

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 Piovaneli, Guido Levi, Leonardo Pedroni, Manuela Ciarfaglia, Claudio Tantucci

Painting, ETS and building age as related to incidence of respiratory symptoms
Juan Wang, Christi Janson, Rain Jogi, Bertil Forsberg, Thorarinn Gisfason, Mathias Holm, Andrei Malinovschi, Vivi Schlüsseen, Cecilie Svanæs, Karl Franklin, Dan Norbäck
Exercise-induced airway symptoms in young athletes; a follow-up from first to third year in sports high school
Karin Ersson (Uppsala, Sweden), Henrik Johansson, Elisabet Mallmin, Leif Nordang, Andrei Malinovschi

Asthma with and without rhinitis and eczema in adults: prevalence, sensitization profile, and risk factors
Teet Pullerits (Göteborg, Sweden), Erik P Römark, Linda Ekerljug, Helena Backman, Hannu Kankaanranta, Madeleine Rådinger, Bo Lundbäck, Bright Nwaru

A mendelian randomization study of BMI and asthma exacerbations in children
Cristina Longo (Amsterdam, Netherlands), Susanne Vijingver, Anke H. Maitland-Van Der Zee

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

Underdiagnosis and misclassification 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

Clinical outcome of adult onset asthma in a 15 year follow-up
Linnéa Almqvist (Boden, Sweden), Helena Backman, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Linnea Hedman

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

Challenges in defining early COPD in the general population: Findings from the Copenhagen General Population Study
Yunus Çolak (Herlev, Denmark), Shoai Afzal, Børge G. Nordestgaard, Peter Lange, Jørgen Vestbo

Asthma in adults: association of asthma symptoms and age at asthma diagnosis
Hanna Hisinger-Mölkänen (Tuusula, Finland), Jasmin Honkamäki, Hannu Kankaanranta, Leena E Tuomisto, Anssi Sovijärvi, Eva Rönmark, Bo Lundbäck, Helena Backman, Heidi Andersen, Ari Lindqvist, Lauri Lehtimäki, Paula Pallásaho, Pinja Ilmarinen, Päivi Piirilä

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

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

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

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

Pre-congress content

Session 109 00:00 - 23:59

E-poster session: Clinical and laboratory pharmacology in asthma

Disease(s): Airway diseases

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

Chairs: Salman Siddiqui (Leicester, United Kingdom)

Late Breaking Abstract - Cardio-selective beta1-blockers in asthma: a search of the World Health Organization Global Individual Case Safety reports (VigiBase)
Miriam Bennett (Manchester, United Kingdom), Catherina Chang, Michael Tatley, Ruth Savage, Robert Hancock

Oral corticosteroid prescription in asthma: Swiss situation
Claudio Schuoler (Zug, Switzerland), Jörg D. Leuppi, Thomas Rothe, Anja Joehmann, Christian Clarenbach, Claudia Steurer-Stey, Florian Charbonnier, Hans-Werner Duchna, Pierre-Olivier Brideaux, Vitaly Chicherov, Maria Korobeynikova, Stefan Wetzel, Caroline Leuenberger, Gunther Pendl
| PA1406 | Icaritin inhibited ovalbumin-induced airway inflammation in murine model |
|        | Dong Yao (Guilin, China), Bo Xiao, Guiming Zhou, Biwen Mo |

| PA1407 | 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 |

| PA1408 | Assessment of biological therapy in asthma-obesity phenotype |
|        | Evgenia Makarova (Chelyabinsk, Russian Federation), Galina Ignatova |

| PA1409 | Diagnosis and therapy of asthma bronchiale in top athletes |
|        | Eva Seres (Budapest, Hungary), Nora Sydo, Gabor Horvath, Timea Kovats, Orsolya Kiss, Bela Merykely, Veronika Muller |

| PA1410 | Budesonide/formoterol efficacy in “obese” asthma. |
|        | Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuryi Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov |

| PA1411 | 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 Dąbrowiecki, Andrzej Dąbrowski, Radosław Gawlik, Aleksandra Kucharczyk, Izabela Kuprys-Lipińska, Agnieszka Matalerz-Migas, Edyta Zagrajka, Marek Ł Kowalski |

| PA1412 | 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, Paramewaran Nair, Celeste Porsbjerg |

| PA1413 | β2-adrenoceptor (β2-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 Bradding, Yassine Amrani |

| PA1414 | Follow-up of patients with severe eosinophilic asthma receiving mepolizumab for one year in specialized asthma clinics in Greece. |
|        | Maria Kallieri (Aspropyrgos, Greece), Elefterios Zervas, Konstantinos Katsoulis, Evangelia Fouka, Konstantinos Porpodis, Konstantinos Samitas, Andriana Papaioannou, Maria Kipourou, Panagiotis Lyberopoulos, Eleni Gaki, Stylianos Vittorakis, Miltiadis Markatos, Katerina Dimakou, Sevasti Ampelioti, Sofia Koukidou, Michal Makris, Maria Ntakoula, Marija Hadji Mitrova, Spyridon Papiris, Nikolaos Tzanakis, Despina Papakosta, Petros Bakakos, Stylianos Loukides |

| PA1415 | High intensity interval training control inflammation in a lung allergic model. |

| PA1416 | Indacaterol/mometasone furoate combination: synergism in human hyperresponsive airway smooth muscle |
|        | Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritiuto, Ivan Nikolaev, Mario Cazzola, Maria Gabriella Matera, Paola Rogliani |

| PA1417 | Broncho-alveolar lavage procedure extract compounds from surrounding tissue |
|        | Erica Bäckström (Mölndal, Sweden), Britt-Marie Fihm, Teodor Erngren, Walter Lindberg, Linda Oqvist, Markus Fridén, Ken Grime |

| PA1418 | 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, Reimond Gosens, Loes Kistemaker |

| PA1419 | 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 |

| PA1420 | 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 Keenakin, Susan Murphy, Tomas Salter-Cid, Hector Ortega, Gregory Opitcek, Luisa Salter-Cid, Laura Carter |

| PA1421 | GB001, a selective prostaglandin D2 receptor 2 antagonist, blocks signaling in the peripheral blood of healthy subjects |
|        | Gregory Opitcek (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/multimorbidites 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)

**PA1422** Predictors of mortality and exacerbations across 34 years among adults with asthma - TRAIL Cohort
Oliver Djurhuus Tupper (Søborg, Denmark), Charlotte Suppli Ulrik

**PA1423** Respiratory symptoms as risk factors for mortality - the Nordic EpiLung Study
Helena Backman (Lulea, Sweden), Laxmi Bhatta, Limnea Hedman, Ben Brumpton, Iida Vähätalo, Paul G Lassman-Klee, Bright Nwaru, Xiao-Mei Mai, Sigrid Anna Vikjord, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Arnulf Langhammer

**PA1424** Implications of different CT emphysema thresholds on COPD phenotypes
Christina Due Svendsen (Bergen, Norway), Kris Ostridge, Rune Nielsen, Eli Nordeide, Terje Larsen, Karel Kj Kiuper, Tomas Mikal Eagan

**PA1425** 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

**PA1426** 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

**PA1427** Incidence of osteoporosis and fragility fractures in asthma: a population-based matched cohort study
Christos Chalitsios (Nottingham, United Kingdom), Dominick Shaw, Tricia Mckeever

**PA1428** Association between obstructive syndrome and mental disorder - The PneumoLoCo study
Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod

**PA1429** 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

**PA1430** Women receiving hormone replacement therapy are at high risk of developing asthma
Erik Sören Halvard Hansen (Valby, Denmark), Kristian Aasbjerg, Amalie Lykkemark Møller, Elisabeth Gade, Christian Torp-Pedersen, Vibeke Backer

**PA1431** 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 Martinez Reyna, Nathalie Martinez Luna, Leslie Verdeja Vendrell, Rocio Sánchez Santillan, Viridiana Peláez Hernández

**PA1432** 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

**PA1433** Early life origins of lung ageing: A study of lung function decline the ECRHS and NFBC1966 cohorts
Cecilie Svanes (Bergen, Norway), Jorunn Kirkeleit, Trond Risse, Matthias Wielscher, 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, Syhamali Dharmage, Debbie Jarvis, Marjo-Riitta Jarvelin

**PA1434** Long-term use of inhaled corticosteroids and the risk of type 2 diabetes in COPD
Mohamad Isam Saeed (Copenhagen C, Denmark), Josefin Eklöf, Imane Achir, Pradeesh Sivapalan, Howraman Meteran, Anders Lokke, Tor-Biering Sørensen, Filip Krag Knop, Jens-Ulrik Stahr Jensen

**PA1435** COPD phenotypes and 5-years mortality risk prediction: PALOMB Cohort
El-hassane Ouanalaya (Merrignac, France), Maëva Zysman, Émilie Berteaud, Laurent Falque, Laurent Nguyen, Jean Michel Dupis, Marielle Sabatini, Alain Bernady, Annaig Ozier, Cécilia Novent-Ejaini, Christophe Roy, Frédéric Le Guillou, Emmanuel Monge, Anne Prudhomme, Marie Laure Peschken, Mohammed Staali, Frederic Pilard, Marc Sapène, Julien Casteigt, Jean Moinard, Yannick Daoudi, Esther Iglesias, Elodie Blanchard, Julie Macey, Rémi Veillon, Xavier Demant, Claire Bon, Leo Grasson, Mathieu Molinard, Chantal Raherison-Semjen

24.08.2020
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, Josefine Eklöf, Imane Achir Alispahic, 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 Riddler, Lisa Van Der Burgh, Fjorda Koromani, Nicole S. Erler, Ross Williams, Lies Lahousse, Katia Verhammer, M. Arfan Ikram, Bruno Stricker, Fernando Rivadeneira, Guy Brusselle

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 Kawaguchi, Yasuharu Tabara, Fumihiko Matsuda, Kazuo Chin, Toyohiria Hirai, HiSako Matsumoto

Elevated cardiac troponin predicts 11-year mortality in COPD
Ulf Nilsson (Umeå, Sweden), Nicholas Mills, Helena Backman, 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 Transplantation Pulmonary function testing

Chairs : Tjip S. van der Werf (Groningen, Netherlands), Chair to be confirmed

Non-communicable comorbidities of Tuberculosis
Layth Al-Salhi (Baghdad, Iraq), Ahmed Mankhi

Are we ready to treat Tuberculosis in ambulatory care?
Ionut Stanciu (Constanta, Romania), Pohrib Ionela, Ghita Monica, Dantes Elena

Knowledge, attitudes and practices of accompaniments 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 Salim

Knowledge, attitudes and perceptions survey regarding tuberculosis in hospitalized patients
Ionela-Alina Grosu-Creanga (Iasi (Iasi), Romania), Cristina Mihaela Ghiciuc, Ioana Buculei, Irina Mihaela Esanu, Adriana Sorete Arbore, Elena Cățălina 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 genotype M. tuberculosis in Kharkiv, East Ukraine

Determination of the type of acetylation in adult patients with lung tuberculosis
Ksenia Galkina (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, Mukhhabat 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, Aydincan Ackdur

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 Gabrovska (Sofia, Bulgaria), Svetlana Velizarova, Albena Spasova, Dimitar Kostadinov, Hristo Shivachev, Yanko Paheev, 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 Schevchenko, Lilia Todoriko, 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), João Ferreira, Helena Gama, Paulo Magalhães, Patricio Soares-Da-Silva

LTI-201: Evaluation of the hemodynamics and safety of inhaled LIQ861 (treprostinil) in pulmonary arterial hypertension (WHO Group 1) patients
Laurent Savale (Le Kremlin-Bicêtre, France), Robert F. Roscigno, Marc Humbert, Toby Vaughn, Werner Seeger

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

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

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

Macitentan in incident and prevalent pulmonary arterial hypertension (PAH): OPUS/OroPH eUS 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

Safety of macitentan in portopulmonary hypertension (PoPH): Real-world experience by liver transplant candidacy in the OPUS registry
Hilary DuBrock (Rochester, United States of America), Richard Channick, Nick H. Kim, Vallerie V. Mclaughlin, Peter Agron, Sandrine Leroy, Graham Wetherill, Kelly Chin

Long-term riociguat treatment towards implementing a targeted treatment strategy in patients with idiopathic pulmonary arterial hypertension
Anna Aleevskaya (Moscow, Russian Federation), Svetlana Gratsianskaya, Zarina Valieva, Tamila Martynyuk

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 Salibe-Filho, Jose Leonidas Alves-Jr, Luciana Morinaga, Juliana Sobral-Alves, Susana Hoette, Mario Terra-Filho, Rogerio Souza
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

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

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

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

Implementation of a systematic comprehensive geriatric assessment for elderly patients suspected of pulmonary hypertension
Laurent Berloet (Saint Etienne Cedex, France), Ludovic Lafaye, Cécile Duvillard, Elodie De Magalhaers, Souad Bezzeghoud, Sandrine Accassat, Paul-Benoît Poble, Pierre-Benoît Bonnefoy, Claire Tulane, Thomas Celarier

Psychological disorders in patients with pulmonary arterial hypertension (Data from the PEPPAH-Study)
Tanja Meltendorf (Germany), Kai G Kahl, Henning Gall, Manuel J Richter, Jan Fuge, Marius M Hoepner, Hossein A Ghofrani, Karen M Olsson

LONG-TERM FOLLOW-UP OF PATIENTS WITH SYSTEMIC SCLEROSIS AND NORMAL OR BORDERLINE PULMONARY PRESSURES
Pavel Jansa (Jimmy, Czech Republic), Vladimír Dytrych, David Ambrož, Radim Bečvář, Regina Herčíkova, Aleš Linhart

BURDEN STUDY OF PULMONARY ARTERIAL HYPERTENSION AND CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION FOR COLOMBIA POPULATION
Dario Londoño (Bogotá, Colombia), Claudio Villaquirán, Rubén Dueñas, Alejandra Taborda, Kamilo Rojas, Cindy Chamarro

Quality of online information on pulmonary arterial hypertension.
Dana Saleh (Calgary, Canada), Jolene Fisher, Steeve Provencher, Christopher Ryerson, Jason Weatherald

Impact of direct-acting antiviral (DAA) treatment for hepatitis C on pulmonary hemodynamics

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)

CFTR and risk of pulmonary arterial hypertension: a case report and mendelian randomization study
jing liao (Guangzhou, China), Wenjun He, Yuqin Chen, Yadan Hu, Yao Ning, Kai Yang, Jian Wang

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

Inflammation biomarkers and risk of pulmonary hypertension: a Mendelian randomization study
Yuanwei Chen (Guangzhou, China), Jing Liao, Jiarui Zhang, Yuqin Chen, Jian Wang

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
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<td>PA1481</td>
<td>Comparison of Treprostinil Palmitil Inhalation Suspension (TPIS) or Oral Sildenafil (Sild) in a Sugen/Hypoxia Rat Model of PAH.</td>
<td>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</td>
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<td>PA1482</td>
<td>Additive protective effects of sacubitril/valsartan and bosentan on vascular remodeling in experimental pulmonary hypertension</td>
<td>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</td>
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<td>PA1483</td>
<td>Zamicastat decreases cardiac arrhythmias in a rat model of pulmonary arterial hypertension</td>
<td>Nuno Pires (Coronado (S. Romao e S. Mamede), Portugal), Bruno Igreja, Luis Magalhaues, Maria-Joao Bonifacio, Eric Chevalier, Patricio Soares-Da-Silva</td>
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<td>PA1484</td>
<td>Relationship between Galectin-3 and mineralocorticoid receptor in pulmonary hypertension</td>
<td>Carl Tanba (Boston, United States of America), Guanning Qi, Rod Warburton, Krishna Penumatsa, Deniz Toksoz, Jamie Wilson, Harrison Farber, Nicholas Hill, Ioana Preston</td>
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<td>PA1485</td>
<td>Mitophagy plays an important role in hypoxia-induced pulmonary artery smooth muscle cell proliferation</td>
<td>Shujin Guo (Chengdu (Sichuan), China), Qianan Zuo, Yutian Zhou, Xiaohui Li</td>
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<td>PA1486</td>
<td>No evidence of desensitization to repeat dosing with treprostinil palmitil inhalation suspension (TPIS) for 32-consecutive days in hypoxia-challenged telemetered rats</td>
<td>Richard W. Chapman (Bridgewater, United States of America), Michel Corboz, Sandra Gagnon, C Brodeur, Adam J Plaunt, Vladimir S Malinin, Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins</td>
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<td>PA1487</td>
<td>Early atorvastatin administration suppresses the oxygen-activating ability of rat neutrophils during monocrotalinin-induced pulmonary arterial hypertension (PAH).</td>
<td>Volha Yatsevich (Minsk, Belarus), Igor Adzerikho, Tatyana Vladimirskaja, Galina Semenkova</td>
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<td>PA1488</td>
<td>Basement membrane, a specialized extracellular matrix, shapes endothelial function in IPAH</td>
<td>Katharina Jandl (Graz, Austria), Leigh M. Marsh, Julia Hoffmann, Ayse Ceren Mutgan, Oliver Baum, Wilhelm Bloch, Katharina Sinn, Walter Klepetko, Ákos Heinemann, Andrea Olschewski, Horst Olschewski, Grazyna Kwapiszewska</td>
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<td>PA1489</td>
<td>Improvements in the dysfunctional right ventricle with Macitentan treatment in a sugen/hypoxic rat model of pulmonary hypertension</td>
<td>Gerard Murphy (Glasgow (Glasgow), United Kingdom), Geeshaht Jayasekera, James Mullin, Lindsay Gallagher, Yvonne Dempse, David J Welsh</td>
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<td>PA1490</td>
<td>Beta 3 adrenoeceptor: a potential therapeutic target for pulmonary arterial hypertension</td>
<td>Pedro Mendes Ferreira (Guimarães, Portugal), Birger Tielemans, Allard Wagenaar, Chantal Dessy, Jean-Luc Balligand, Marion Delcroix, Rozenn Quarck, Catharina Begle</td>
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<td>PA1491</td>
<td>Pulmonary artery endothelial cell exposure to hepcidin affects BMP-signalling; relevance to vascular remodelling in PAH</td>
<td>Ioannis Panselinas (London, United Kingdom), Quezia K Toe, Katie Clementson, Maziah M Ghazaly, S John Wort, Gregory J Quinlan</td>
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<td>PA1492</td>
<td>Soluble LR11 level is correlated with the severity of pulmonary hypertension due to left heart disease.</td>
<td>Yusuke Joki (Tokyo, Japan), Hakuoh Konishi, Kiyoshi Komish, Kiyoshi Takasu, Kazunori Shimada</td>
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<td>PA1493</td>
<td>Extended versus limited stimulation-guided pulmonary artery catheter denervation in normotensive pigs: acute hemodynamic effects</td>
<td>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 Mikhailyov</td>
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<td>PA1494</td>
<td>Mendelian Randomization Study Showed No Causality between Type 2 Diabetes and Pulmonary Hypertension</td>
<td>Jiarui Zhang (X, China), Jing Liao, Yuanwei Chen, Yuqin Chen, Jian Wang</td>
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<td>PA1495</td>
<td>Role of IL-11 system in Pulmonary Hypertension</td>
<td>Ines Roger (Valencia, Spain), Javier Milara, Cristina Estornut, Amparo Bayarri, Antonio Garcia, Julio Cortijo</td>
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<td>PA1496</td>
<td>No indication of insulin resistance in idiopathic PAH with preserved physical activity</td>
<td>Bence Nagy (Graz, Austria), Gabor Kovacs, Adrienn Tornos, Eva Svehlikova, Vasile Foris, Chandran Nagaraj, Grazyna Kwapiszewska, Thomas R. Pieber, Andrea Olschewski, Horst Olschewski</td>
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Pre-congress content  Session 114  00:00 - 23:59
E-poster session: Exercise and haemodynamics in pulmonary hypertension
**Disease(s):** Pulmonary vascular diseases, Airway diseases

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

**Chairs:** Silvia Ulrich (Zurich, Switzerland), Luke Howard (London, United Kingdom)

**PA1497**

**Percent-predicted incremental shuttle walking test distance stratifies risk in pulmonary arterial hypertension**


**PA1498**

**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

**PA1499**

**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

**PA1500**

**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 García, Víctor Peinado, Lucilla Piccari, Lluís Molina Ferragut, Joan Albert Barberà

**PA1501**

**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

**PA1502**

**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

**PA1503**

**Stepping is a discriminative field exercise modality with similar performance compared to 6-MWT to predict low risk in PH**

Lídia Cunha Cé (Curitiba (PR), Brazil), Danilo Cortezzi Berton, Elisa Schroeder, Franciele Plachi, Marli Maria Knorst, Igor Gorski Benedetto, Marcelo Basso Gazzana

**PA1504**

**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

**PA1505**

**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, Stéphanie Saxer, Michael Furian, Konrad Bloch, Silvia Ulrich

**PA1506**

**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 Barberà

**PA1507**

**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

**PA1508**

**MPAP/C0-slope during exercise as predictor of mortality in patients at risk for pulmonary hypertension.**

Philipp Douschan (Graz, Austria), Vasile Foris, Alexander Avian, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

**PA1509**

**Exercise induced changes in pulmonary artery wedge pressure: insights from heart failure with preserved ejection fraction**

Claudia Baratto (Milano, Italy), Sergio Caravita, Andrea Faini, Davide Soranna, Céline Dewachter, Giovanni Battista Peregò, Antoine Bondue, Antonella Zambon, Luigi P Badano, Michele Senni, Gianfranco Parati, Jean-Luc Vachiéry

**PA1510**

**Predictors of a precapillary component in patients with postcapillary pulmonary hypertension**

Damien Fard (Créteil, France), Athénaios Bouly, Mariana Preda, David Montani, Xavier Jais, Laurent Savale, Xavier Mignard, Mitja Jevnikar, Etienne-Marie Jutant, Andrei Seferian, Marc Humbert, Jean-Luc Vachiéry, Olivier Sitbon
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<td><strong>E-poster session: Clinical evaluation, biomarkers and risk assessment of pulmonary hypertension</strong></td>
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<td><strong>Disease(s):</strong> Pulmonary vascular diseases</td>
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<td><strong>Method(s):</strong> General respiratory patient care, Imaging, Epidemiology, Cell and molecular biology, Pulmonary function testing, Public health</td>
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<td><strong>Chairs:</strong> Valentina Mercurio (Napoli, Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
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<td><strong>PA1516</strong></td>
<td>Precapillary pulmonary hypertension in patients with a high HFpEF probability: Insights from the Amsterdam UM C PAH-cohort</td>
<td>Azar Kianzad (Amsterdam, Netherlands), Frances S De Man, Lucas R Celant, Anton Vonk Noordegraaf, Louis M Handoko, Harm Jan Bogaard</td>
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<td><strong>PA1517</strong></td>
<td>A Minimal Clinically Important Difference for CAMPHOR in Idiopathic Pulmonary Arterial Hypertension</td>
<td>Katherine Buncnark (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</td>
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<td><strong>PA1518</strong></td>
<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 Hoepfer, Karen M Olsson</td>
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<td><strong>PA1519</strong></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><strong>PA1520</strong></td>
<td>Risk stratification and prognostic factors in patients with pulmonary arterial hypertension and comorbidities</td>
<td>Benjamin Egenlauff (Heidelberg, Germany), Panagiota Xanthisouli, Maria Kögler, Alberto Marra, Nicola Benjamin, Lukas Fischer, Christina Eichstaedt, Satenik Harutyunova, Christian Nagel, Ekkehard Grünig</td>
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<td><strong>PA1521</strong></td>
<td>Risk assessment, therapy and cardiovascula comorbidity in patients with pulmonary arterial hypertension</td>
<td>Katleen Swinnen (Leuven, Belgium), Marion Deleroix, Rozenn Quarck, Celine Dewachter, Jean-Luc Vachiéry, Catharina Belge</td>
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<td><strong>PA1522</strong></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 Dwivedi, Dheyaa Alkhantar, Sameer Alabed, Chris Johns, Pankaj Garg, Robin Condliffe, Allan Lawrie, Jim Wild, David Kiely, Andrew Swift</td>
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<td><strong>PA1523</strong></td>
<td>Risk status at selexipag initiation in pulmonary arterial hypertension (PAH): Insights from EXPOSURE</td>
<td>Sean Gaine (Dublin, Ireland), Pilar Escrivan, Patricia Biedermann, Audrey Muller, Hong Sun, Stefan Söderberg, Tobias J Lange</td>
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<td><strong>PA1524</strong></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><strong>PA1525</strong></td>
<td>Gamma-Glutamyltransferase in pulmonary hypertension: A reliable biomarker?</td>
<td>Jonas Lund (Germany), Athiththan Yogeswaran, Khodr Tello, Natasa Sommer, Jan Grimminger, Lars Harbaum, Jan K. Hennigs, Hans Klose, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall</td>
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mRNA sequencing of educated platelets generates a diagnostic biomarker for discrimination between pre- and post-capillary pulmonary hypertension.
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

Utility of D-Dimer for mortality prediction in patients at risk for pulmonary hypertension
Vasile Foris (Graz, Austria), Florian Prüller, Gabor Kovacs, Alexander Avian, Philipp Douschan, Markus Herrmann, Horst Olschewski

Association between Metabolites Biomarkers and Pulmonary Hypertension: A Mendelian Randomization analysis
Dansha Zhou (Guangzhou, Guangdong Province, China), Jing Liao, Yuqin Chen, Jian Wang

Impact of the new definition of precapillary pulmonary hypertension on patient disposition
Piet Rosenstock, Austria, Katarina Zeder, Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

Impact of the new hemodynamic classification in the diagnosis of pulmonary hypertension
Report from a pneumology based PH center
Katharina Heining-Menhard (Tutzing, Germany), Cosmina Stoleriu, Marion Heiss-Neumann, Edith Silbernegal, Margot Neiswirth, Juergen Behr, Ralf Gores, Wolfgang Gesierich, Frank Reichenberger, Frank Reichenberger

CIPHER: a prospective, multicentre study for the identification of biomarker signatures for early detection of pulmonary hypertension
Luke Howard, London, United Kingdom, Kelly Chin, Yiu-Lian Fong, Cynthia Gargano, Dimitri Stamatiadis, Bradley Maron, Ioana Preston, Deborah Quinn, Stephan Rosenkranz, Mark Toshner, Martin Wilkins, David Kiely

Feasibility of microRNA signatures for detection early stage pulmonary hypertension
Aaron Waxman, Boston, United States of America, Yiu-Lian Fong, Timothy Jatkoe, He Cheng, Lihan Zhou, Charles Bridges

Reliability of echo systolic pulmonary arterial pressure to detect new definition of pulmonary hypertension
Henning Gall, Gießen, Germany, Athiththan Yogeswaran, Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter

Using parasternal electromyogram to measure neural respiratory drive in pulmonary hypertension
Paul McCaughey, Glasglow, United Kingdom, Michael Megettrick, Alexander Maclellan, Melanie Brewis, Colin Church, Martin Johnson

Prevalence of hyperventilation syndrome in pulmonary arterial hypertension
Etienne-Marie Jutant, Paris, France, Clara Malka Ruyni, Antoine Beurnier, Abdelkader Belguendousse, Marianna Preda, Xavier Jais, Laurent Savale, Gilles Garcia, Marc Humbert, Olivier Sitbon, David Montani

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

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, Gerald Simonneau, Marc Humbert, Xavier Jais

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 Papamateakis, David Poch, Victor Pretorius, Nick Kim

Sequential multimodal therapy in patients with chronic thromboembolic pulmonary hypertension (CTEPH)
Mitja Jevnikar, Paris, France, Sabina Solinas, Philippe Brenot, David Montani, Laurent Savale, Olivier Sitbon, Elie Fadel, Gerald Simonneau, Marc Humbert, Xavier Jais
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 Condliffe, Rehan QUADERY, David G Kiely, Jim Wild, Andrew J Swift

Introduction of a national multidisciplinary CTEPH board to improve operability assessment
Isabelle Opitz (Zurich, Switzerland), Frederic Lador, John-David Aubert, Michael Tamm, Katarzyna Furrer, Mona Lichtblau, Charlotte Berlier, Thomas Frauenfelder, Thomas Pfammatter, Anne-Lise Hachulla, Patrick Yerly, Jean-Marc Fellrath, Silvia Ulrich

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

Epidemiology of chronic thromboembolic pulmonary hypertension (CTEPH) in the Czech Republic
Pavel Jansa (Jirny, Czech Republic), David Ambroz, Matyas Kuhn, Vladimir Dytrych, Ale Linhart, Jaroslav Lindner, Audrey Muller

Adherence to guidelines of anticoagulant prescription in pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension: an observational study
Marie-Camille Chaumais (Le Kremlin Bicêtre, France), Raphaela Rainone, Benjamin Querin, Najiba Alioua, Laurent Bertoletti, Sylvie Raspaud, Xavier Jais, Laurent Savale, Olivier Sibon, Marc Humbert, David Montani

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, Panagota Xanthouli, Eckhard Mayer, Ekkehard Gruning, Stefan Guth

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 Goncalves, Andre Luz, Atilio Reis

BPA for CTEPH: the Viennese experience
Christian Gerges (Wien, Austria), Richard Friewald, Inbal Shafran, Roela Sadushi-Kolici, Nika Skoro-Sajer, Mario Gerges, Bernhard Moser, Shahrokh Taghavi, Walter Klepetko, Irene Lang

Predictive Value of CT Pulmonary Angiography (CTPA) to Assess the Surgical Accessibility for Pulmonary Endarterectomy in Patients with CTEPH
Thomas Frauenfelder (Zurich, Switzerland), Michael Mcinnis, Matthias Eberhard, Marc De Perrot, Silvia Ulrich, Ilhan Inci, Isabelle Opitz

LSC - 2020 - Comparison of metabolic profile in endothelial cells of chronic thromboembolic pulmonary hypertension and pulmonary arterial hypertension
Olga Tura- Ceide (Barcelona, Spain)

Transforming growth factor beta induces Beclin-1 in pulmonary arterial endothelial cells
Po Ru Chen (New Taipei City 242, Taiwan), Ying Ju Lai

Elevated Von Willebrand Factor expression in the activated pulmonary endothelium of chronic thromboembolic pulmonary hypertension patients enhances platelet adhesion.
Xue Daphne Manz (Utrecht, Netherlands), Xiaoke Pan, Petr Symersky, Jisca Majolée, Peter Hordijk, Jan Voorberg, Jurjan Aman, Harm Jan Bogaard, Robert Szulcek

Plasma metabolomics in chronic thromboembolic pulmonary hypertension
Emilia Swietlik (Cambridge, United Kingdom), Pavandeep Ghattoo, 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

MicroRNA expression analysis in Chronic Thromboembolic Pulmonary Hypertension using pulmonary endarterectomy derived samples
Isabelle Opitz (Zurich, Switzerland), Itzel Shantal Martinez Lopez, Theodorus Papasotiropoulos, Fabian Schlaepfer, 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)
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, Ebbby Simon, Balamugesh Thangakunanam

Internal mammary adenopathy: a diagnostic sign of pleural tuberculosis?
Maria Inês Costa (Rio Tinto, Portugal), Joana Gomes, Fernando Guedes, Ricardo Reis

Can pleural biopsy histology in combination with pleural fluid adenosine deaminase be used for diagnoses of pleural TB?
Sundeep Ghuman (Hounslow, United Kingdom), Owais Kadwani, Junyi Zhang, Charlotte Carter, Ronan Breen, Liju Ahmed

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 Varahram, Neda K Dezfuli, Ian M Adcock

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, Luis Vaz Rodrigues

Utility of pleural fluid glucose measurement in TB pleural effusions
Charlotte Carter (London, United Kingdom), Owais Kadwani, Junyi Zhang, Sundeep Ghuman, Ronan Breen, Liju Ahmed

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, Heinke Kunst

Menstrual Disorders in Non-genital Tuberculosis - an Ignored Entity
Mani Tiwari (Allahabad (Uttar Pradesh), India), Balakrishnan Menon

Menstrual Disorders in Non-genital Tuberculosis - an Ignored Entity
Mani Tiwari (Allahabad (Uttar Pradesh), India), Balakrishnan Menon

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

Aceptability of a new child-friendly dispersible tablet for drug-susceptible 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 Schlegendi

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 Liscinscaia (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
Disease(s): Respiratory critical care Airway diseases Thoracic oncology Interstitial lung diseases
Method(s): Endoscopy and interventional pulmonology General respiratory patient care Respiratory intensive care Cell and molecular biology Palliative care Imaging
Chairs: Pallav L. Shah (London, United Kingdom), David Fielding (Herstin, Australia)

**PA1571 Late Breaking Abstract - Microwave ablation via a flexible catheter for the treatment of nonsurgical peripheral lung cancer: a pilot study**
Jayuan Sun (Shanghai, China), Jiayuan Sun, Fangfang Xie, Junxiang Chen, Xiaoxuan Zheng

**PA1572 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

**PA1573 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

**PA1574 Endobronchial Valves: First french multicenter retrospective study on the 2 steps approach**
Thomas Egenod (Limoges, France), Nicolas Guibert, Yoann Ammar, Romain Kessler, Benedictie Toublanc, Nicolas Favrolt, Amandine Briault, Hervé Dutau, Frederic Wallyn, Armelle Marceau, Laurent Cellerin, Samy Lachkar, Julien Dutilh, Jean-Michel Vergnon, Matthieu Dusselier

**PA1575 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

**PA1576 Implementing bronchoscopic lung volume reduction using one-way endobronchial valves in a Dutch university hospital, retrospective real-life outcomes at 3 months.**
Rein Poswolter (Maastricht, Netherlands), Anouk Vaes, Kim Walraven, Geertjan Wesseling, Emiel Wouters, Lowie Vanfleteren

**PA1577 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, Negar Eftekhar

**PA1578 Transbronchial lung cryobiopsy guided with radial mini-probe EBUS for diagnosing peripheral lung lesions suspected of malignancy**
Maciej Gnass (Myślenice, Poland), Joanna Sola, Stanislaw Orzechowski, Monika Lis, Monika Skrobot, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski

**PA1579 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 Belsiaev, Tatiana Novickaya, Viacheslav Zhuravlev, Piotr Yablonskii

**PA1580 Transbronchial Lung Cryobiopsy (TBLC) for Interstitial Lung Disease (ILD) can be safely done in patients with multiple medical comorbidities**
Hariprasad Kalpakam (India), Rajani Bhat, Sameer Bansal, Pooja Bajaj, Ravindra Mehta

**PA1581 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 Ammena

**PA1582 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

**PA1583 Polarization sensitive optical coherence tomography (PS-OCT) for bronchoscopic airway imaging.**
Pieta Wijsman (Amsterdam, Netherlands)

**PA1584 An improved technique in cryobiopsy of pleura**
Syed Tousheed (Bangalore (Karnataka), India), Ravi Teja, Ph Manjunath, Hemanth Kumar, Sagar Chandrashekaraiah, Bv Murali Mohan, Ranganath Ramanjaneya

**PA1585 Efficacy of medical thoracoscopy in thoracic empyema treatment**
Valentina Pinelli (Sarzana, Italy), Guido Levi, Federica Novelli, Vanna Balestracci, Massimiliano Sivori, Giam Pietro Marchetti

**PA1586 Risk of subcutaneous emphysema following IPC insertion at local anaesthetic thoracoscopy**
Alison Stockbridge (Birmingham, United Kingdom), Sarah Johnstone, Muhammad Tufail, R K Panchal

**PA1587 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 M Irusen, Andreas H Diacou
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, Pulmonary function testing, Endoscopy and interventional pulmonology

Chairs : Keertan Dheda (Cape Town, South Africa), Sergey Evgenievich Borisov (Moscow, Russian Federation)

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

Video observed treatment for TB patients. Belarus experience.
Alena Skrahina (Minsk region, Belarus), Henadz Hurevich, Ekaterina Ilyasova, Vassily Akulov, Dmytry Kluk, Viacheslav Grankov, Aliaksandr Skrahin, Masoud Dara

Treatment of multidrug-resistant tuberculosis (MDR-TB) with modified shorter all-oral treatment regimen (mSTR) under operational research conditions in Belarus
Sivagnaname Yuvarajan (PONDICHERRY (Tamil Nadu), India), Praveen Radhakrishnan, Antonious Maria Selvam, K Durga

Line Probe Assay as a preliminary investigation for diagnosing resistant tuberculosis: A Single center experience
Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke

Incidence of cycloserine induced neurotoxicity in drug resistant TB patients attending a tertiary care hospital.
Pratibha Singh (Mumbai (Maharashtra), India), Prayar Luniya, Kapil Salgia, Iram Syed

Adverse effects among MDR/XDR TB patients with viral hepatitis appearing during TB chemotherapy
Edik Vaniev (Russian Federation), Anastasia Samoilova, Irina Vasilyeva, Olga Lavchayeva, Tatiana Tyukova

Proteasome Accessory Factor-C (PaFC) as a potential regulator of mycobacterial survival in multi drug-resistant tuberculosis patients
APOORVA NARAIN, Rikesh Kumar Dubey, Ajay Kumar Verma, Anand Srivastava, Surya Kant

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
Grigory Kaminskiy (Moscow, Russian Federation), Anna Panova, Eoud Karamov, Elena Veselova, Sergey Smerdin, Marina Leichiyader, Anastasia Samoilova, Irina Vasilyeva

Multivariat analysis of the effectiveness of bedaquiline-containing chemotherapy regimens in previously treated XDR TB patients
Nataliya Stavitskaya (Pushkino, Russian Federation), Nataliya Stavitskaya, Sergey Smerdin, Dmitriy Kudlay, Nataliya Doktorova, Osiet Tlif, Tatiana Petrenko, Tatiana Kolpakova

The effect of anti-tuberculosis chemotherapy using second-line drugs on the structural and functional state of the thyroid gland
Anzhela Polyakova (Moscow, Russian Federation), Atadzhan Ergeshov

Predictors of death in patients with MDR-TB and HIV
Larisa Rusakova, Sergey Saenko, Sergey Sterlikov

Frequency of side effects among patients with drug resistant tuberculosis (DR-TB) by resistance pattern in a high burden country.
KETAN MALU (MUMBAI, India), Jeffrey A Tornheim, Amita Gupta, Kishore Girija, Zarir F Udwadia

Rapid Molecular Diagnosis Of Multidrug-Resistant Tuberculosis in South Eastern Region of Romania
Ioan Anton Arghiri (Constanta (Constanta), Romania), Simona Claudia Cambrea, Elena Dantes, Viorica Cojocaru, Ileana Ion

Tuberculosis in Estonia: a major impact of Russian MDR Mycobacterium tuberculosis Beijing B0/W 148-cluster
Alena Gerasimova (St.Petersbourg, Russian Federation), Anna Vyazovaya, Klavdia Levina, Marge Kuut, Igor Mokrousov

Safety of the endobronchial valve use in the complex treatment of patients with destructive MDR/XDR TB associated with HIV infection.
Denis Krasnov (Novosibirsk, Russian Federation), Sergey Sklyuev, Yana Petrova, Elena Myshkova
**Pre-congress 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)

**PA1607**
Diagnostic accuracy of St. Luke’s - Lung Cancer Risk Prediction Scoring (SL - CaRPS), a novel tool in predicting malignancy among adult patients with CT - scan diagnosed pulmonary nodules
Eliezer James Aguila (Pasig, Philippines), Maria Nikki Cruz, Maria Janeth Samson, Jerald Gavin Lim

**PA1608**
Use of NELSON screening to early detect lung cancer (LC) patients in the Portuguese population
Inês Sucena Pereira (Vila Nova de Gaia, Portugal), Adelaide Alves, Daniel Coutinho, Telma Costa, Eloisa Silva, Sérgio Campainha, Margarida Dias, Ana Barroso

**PA1609**
Bronchiectasis and false positive cases in a lung cancer screening program
Maria Sanchez-Carpintero Abad (Orkoien (Navarra), Spain), Javier Zulueta, Juan Pablo De Torres, Ana Belen Alcaide, Pablo Sanchez Salcedo, Usua Montes, Gorka Bastarrika, Arantza Campo

**PA1610**
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

**PA1611**
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, Diurbs Velasco Alvarez, Carlos Almonacid Sánchez, Paola Arrieta Narváez, Isabel Hornero

**PA1612**
Prevalence of lung cancer in patients with atherosclerotic peripheral arterial disease: meta-analysis of literature data
Flore Bintein (Paris, France), Alexandra Vannoustos, Gilles Chatellier, Manon Fontaine, Diane Damotte, Patrizia Paterlini-Brèchet, Guy Meyer, Véronique Duchatelle, Valeria Marini, Karl-Léo Schwering, Cécile Labrousse, Hélène Beausset, Marc Zins, Sergio Salmeron, Jean-Patrick Lajonchère, Pascal Piotto, Joseph Emmerich, Jean Trédaniel

**PA1613**
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-Yen Chuang, Chih-Hung Lin, Chien-Hua Tseng, Kun-Chieh Chen, Gee-Chen Chang

**PA1614**
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, Robert Johnston, Sarah Welsh, Dan Mitchell, Hussein-Ara Shah

**PA1615**
Objective measurement of tumor central location can predict nodal involvement in patients with CT1NOMO non-small cell lung cancer
Mireia Martinez Palau (Terrassa, Spain), Bruno Garcia Cabo, Teodora Pribic, Bienvenido Barreiro Lopez, Luis Esteban Tejero, Ramon Rami Porta, Sergi Call Caja, Carme Obiols Fornell, Mireia Serra Mitjans, Jose Sanz Santos

**PA1616**
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

**PA1617**
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 Stamatakos, Christina Balakera, Ilias 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), Jeenan Shah, Ajay Ravi, Rajiv Goyal

Recognition of aberrant promoter methylation for early diagnosis of lung cancer patients

Supriya Karpathak (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 Biraris, S Prakash, Sandeep P. Tandon

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, Pınar Ergun

Pre-congress content Session 121 00:00 - 23:59

E-poster session: Localised non-small cell lung cancer

Thoracic oncology, Interstitial lung diseases, Airway diseases

Endoscopy and interventional pulmonology, General respiratory patient care, Surgery, Imaging, Pulmonary function testing, Physiology

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, Güntuğ Batıhan, Şeyda Örs Kaya

The use of predicted vs actual haemoglobin in the calculation of gas transfer (TL CO) in lung cancer pathways

Giles Dixon (Badminton, United Kingdom), Mark Hardman, 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 Løkke

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, Güntuğ Batıhan, Şeyda Örs Kaya, 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 Akif 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), María Granados Santiago, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Ascensión Rodríguez Rodríguez, Marie Carmen Valenza

Clinicopathologic features of patients with non-small cell lung cancer and chronic obstructive pulmonary disease undergoing lung cancer surgery
Sladjanja Radosavljevic (Novi Sad, Republic of Serbia), Ilija Andrijevic, Jovan Matijasevic, Dusanka Obradovic, Stoja Kruči, Senka Milutinović Ilic, Aleksandar Bokan

A retrospective analysis of risk factors for Durvalumab related interstitial lung disease after chemoradiotherapy in Stage III NSCLC
Nobuyuki Hiramata (Kanagawa, Japan), Masaki Yamamoto, Hiromi Kanaoka, Koushi Somekawa, Momo Hirata, Tisato Kamimaki, Syuuhe Ikeda, Sousuke Kubo, Usio Ryouta, Saki Manabe, Makoto Kudou, Takesi Kaneko

Performance status and body mass index: prognostic impact of their changes in patients with stage III NSCLC
Yasmine Hadidene, Hela Kamoun, Azza Slim, Amal Saiti, Hedia Bellali, Hajer Ben Abdelghaffar, Hanen Smadhi, Dorra Greb, Hassen Hela, Leila Fkih, 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 Seinsta, Teodora Radonic, 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, Junki Koike, Masamichi Mineshita

Pre-congress content
Session 122 00:00 - 23:59

E-poster session: Molecular alterations and immunology in lung cancer

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

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 I. Trufa, Carol-Immanuel Geppert, Ralf J. Rieker, Horia Sirbu, Susetta Neurath-Finotto

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

Germline mutations in young never-smokers with lung adenocarcinoma
Wenxin Luo (China), Weimin Li

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 Saitou, Kouji Kuronuma, Hirohumi Chiba, Hiroki Takahashi

Molecular hallmarks of smoking in the Gauting lung adenocarcinoma donors
Anne-Sophie Lamort (München, Germany), Mario A.A. Pepe, Sabine J. Behrend, Ioannis Lilis, Giannoula Ntaliiarda, Magda Spella, Willem Kuyk, Michael Lindner, Ina Koch, Rudolf A. Hatz, Jürgen Behr, Georgios T. Stathopoulos

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

Relationship between Cancer-associated fibroblast and programmed death ligand 1 expression in non-small cell lung cancer
Hiroyasu Kobayashi (Suzuka, Japan), Hiroyasu Kobayashi
PA1650  IMMUONOLOGICAL 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

PA1651  Molecular profiling of Sq-NSCLC with enhanced FGFR1-4 and MET gene expression - NGS pilot study.
Joanna Moes-Sosnowska (Warsaw, Poland), Ewa Szczepulska-Wojcik, Adrianna Rozy, Renata Langfort, Piotr Rudzinski, Tadeusz Orłowski, Monika Skupinska, Delfina Popiel, Maciej Wieczorek, Aleksandra Stanczak, Joanna Chorostowska-Wynimko

PA1652  Biomarkers of lung cancer based on the expression of genes, transposons and repetitive elements
Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larroso Jiménez, M. Gonzalo Claros Díaz, Rocio Bautista Moreno

PA1653  EVI5 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

PA1654  The genetic expression LG13 (Leucine rich repeat LG1 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 Lee, Hye-Young Yun

PA1655  Immunomodulating properties of Fasl + lung cancer cells identified in lymph nodes aspirates of NSCLC patients
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecień, Elżbieta Rutkowska, Rafal Sokolowski, Joanna Domagala-Kulawik

PA1656  Immunosuppressive properties of human PD-1+ PDL-1+ dendritic cell from Lymph Nodes Aspirates of NSCLC patients.
Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Rafal Sokolowski, Joanna Bednarek, Agata Raniszewska, Karina Jahnz-Różyk, Piotr Rzepecki, Joanna Domagala-Kulawik

PA1657  Caspase recruitment domain containing protein 9 suppresses non-small cell lung cancer proliferation and invasion via inhibiting MAPK/p38 pathway
Shuiliian Zhu (, China), Linyue Pan, Haiyan Ge

PA1658  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

PA1659  An implantable rutin incorporated PCL/collagen electrospun nanofibers for effective growth inhibition of lung cancer cells: Possible application in prevention of lung cancer local recurrence
Shadi Doosti (, Turkey), Selman celik, Mohamad Ali Karimi

PA1660  MiR-34a favours macrophage polarization switch from M2 to M1 phenotype in non small cell lung cancer (NSCLC)
Mansoor Ali Syed (New Delhi (Delhi), India), Shweta Arora, Shakir Ali

Pre-congress content
Session 123  00:00 - 23:59
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

PA1661  Assessment of health-related quality of life and hospital admission costs of domiciliary High-Flow nasal cannula treatment for severe COPD with chronic hypoxic failure
Sabrina Storgaard Sørensen (, Denmark), Ulla Møller Weinreich, Line Hust Storgaard

PA1662  The association of FVC with quality of life - The PneumoL aus|PsyCoL aus study
Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod

PA1663  Presentation and management of primary and secondary spontaneous pneumothoraces in Ayshire, a semi-rural population health district - a 5-year retrospective study, 2014 to 2018
Lorna Stillie (, United Kingdom), Walaa Aldairy, Shafeer Rishad, Anur R Guhan

PA1664  Risk factors for impaired pulmonary function in adult survivors of childhood hematological and non-hematological malignancies
Lucia Spicuzza (Sant'Agata Li Battiati (CT), Italy), Emanuela Cannata, Lisa Angileri, Giovanna Russo, Andrea Di Cataldo, Nunzio Crimi
Healthy Diet scores and asthma symptoms in elderly women

Wassila Ait-hadad (Villejuif, France), Annabelle Bédard, Sébastien Chanoine, Orianne Dumas, Nasser Laouali, Nicole Le Moual, Bénédicte Leynaert, Conor Macdonald, Valérie Siroux, Marie-Christine Boutron-Ruault, Raphaëlle Varraso

Health state utilities in adult Primary Ciliary Dyskinesia patients

Panayiotis Kouis (Nicosia, Cyprus), Stavria Artemis Elia, Maria G. Kakkoura, Phivos Ioannou, Pinelopi Anagnostopoulou, Panayiotis K. Yiallouros

INHALED CORTICOSTEROIDS AND RISK OF OSTEOPOROSIS IN LATE-MIDDLE AGE SUBJECTS: A MULTICENTER EUROPEAN COHORT STUDY

Davide Piloni (Pavia, Italy), Amelia Grosso, Maria Elisabetta Zanolini, Lucia Cazzoletti, Veronica Mattioli, Erica Gini, Federica Albicini, Vanessa Ronzoni, Isa Cerveri, Angelo Guido Corsico, Debbie Jarvis, Christer Janson

Factors Associated With 90-day Readmission in Inpatients with Chronic Obstructive Pulmonary Disease

Fen Dong (Beijing, China), Ke Huang, Xiaoxia Ren, Yanyan Wang, Jianjun Jiao, Ting Yang

Depressive symptoms and their association with sleep disorders in the Chilean adult population

Juan Carrillo (Calama, Chile), Ana Concha, Verónica Sánchez, Sonia Jara, Vladimir Castillo

The Effect of Dietary Fiber and Nutrients Intake on the Lung Function and COPD in Korean Adults

Young Ju Jung (Seoul, Republic of Korea), Se Hee Lee, Ji Ho Chang, Hye Seung Lee, Eun Hee Kang, Se-Won Lee

Economic and Health Consequences of Spouses of Lung cancer Patients in Denmark 1998-2010

Anja Gouliaev (Viby J, Denmark), Ole Hildberg, Anders Løkke

Prevalence of Latent Tuberculosis in Patients with Chronic Kidney Disease of Non Diabetic Origin in Central Sri Lanka

Dushantha Madegedara (Peradeniya, Sri Lanka), Birendra Perera, Sachini Senevirathna, Sahani Darmadasa, Lakmi S.A., Iselda Nawareathna, Lihihi Basnayake

Healthcare resource use and related costs in patients receiving nintedanib or pirfenidone for idiopathic pulmonary fibrosis

Philippe Bonniaud (Dijon, France), Vincent Cottin, Paolo Spagnolo, Maëva Nolin, Faustine Dalon, Klaus-Uwe Kirchgässler, Jenny Chia, Triphthi Kamath, Eric Van Ganse, Manon Belhassen

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 Wennegren

Socioeconomic impact of chronic cough in Northern Europe

Össur Ingi Emilsson (Uppsala, Sweden), Henrik Johansson, Ane Johannessen, Mathias Holm, Bertil Forsberg, Vivi Schlünssen, Rain Jogi, Eva Lindberg, Andrei Malinovschi

Influence of healthcare resource provision on population mortality rate due to respiratory diseases in the Russian Federation

Victor P. Kolosov (Blagoveschensk (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 Annesi Maesano (Paris, France), Fernando De Benedetto, Giuseppe Corbo, Marzia Simoni, Maria Rosaria Manigrasso, Stefano Nardini

Real-world treatment patterns of mepolizumab therapy in Canada

Stephen G Noorduy (Mississauga, Canada), Stephen G Noorduy, Lawrence Mbuagbaw, Alain Gendron, Michelle L Knutson, Niroshan Srikandarajah, Jason K Lee

Pre-congress content Session 124 00:00 - 23:59

E-poster session: Real-world data and registries of thoracic oncology

Disease(s): Thoracic oncology Airway diseases

Method(s): Imaging Epidemiology General respiratory patient care Endoscopy and interventional pulmonology Palliative care Cell and molecular biology Surgery Physiology
Chairs: Tuncay Göksel (Izmir, Turkey), David Heigener (Rotenburg (Wümme), Germany)

PA1681 Lung cancer survival in never smokers. Results from the LCRINS study
Ana Casal (Vigo, Spain), Maria Torres, Isaura Parente, Mariano Provenocio, Antonio Golpe, Carmen Montero, Iria Vidal, Virginia Leiro, Cristina Martinez, Ollalla Castro, Alberto Fernandez, Luis Valdes, Alberto Ruano

PA1682 Nationwide real-world cohort study of first line TKI treatment in epidermal growth factor receptor mutated non-small cell lung cancer
Rolof G.P. Gijtenbeek (Leeuwarden, Netherlands), Ronald A.M. Damhuis, Harry J.M. Groen, Anthonie J. Van Der Wekken, Wouter H. Van Geffen

PA1683 Real-life effectiveness of first-line treatments in NSCLC patients stage IIIIB/IV - data from the Czech TULUNG Registry
Kristian Brat (Brno, Czech Republic), Monika Bratova, Jana Skrickova, Magda Barinova, Karolina Hurdalkova, Milos Pesek, Martin Svaton, Libor Havel, Marketa Cernovska, Leona Koubkova, Michal Hrnciarik, Jana Krejci, Juraj Kultan, Ondrej Fischer, Milada Zemanova, Helena Coupkova, Tana Tuzova, Daniel Dolezal, Martin Safanda

PA1684 The gendered Experience of mesothelioma study (GEMS): findings from a survey data analysis
Michaela Senek (Sheffield, United Kingdom), Angela Tod, Steven Robertson

PA1685 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

PA1686 Epidermal growth factor receptor (EGFR) gene mutation testing prior to tyrosine kinase inhibitors (TKI) treatment - prospective data from the Czech TULUNG registry
Jana Skřičková (Brno 35, Czech Republic), Petra Májková, Magda Bařinová, Monika Bratová, Miloš Pešek, Martin Svatů, Vítězslav Kolek, Ondřej Fíšer, Leona Koubková, Andrea Benejová, Ondřej Venclíček, Markéta Černovská, Libor Havel, Michal Hrnciarik, Jaromír Roubec, Zemanová Milada, Petr Opálka, Jana Krejčí, Dan Krejčí, Helena Čoupková, Zdeněk Merta

PA1687 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

PA1688 Treatment sequencing in NSCLC EGFR + - real-world data
Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Daniel Coutinho, Eloisa Silva, Telma Costa, Sergio Campainha, Sara Conde, Ana Barroso

PA1689 Clinical and molecular features of V600E and non-V600E BRAF mutations in NSCLC - a retrospective monocentric observational study
caroline phillips (London, United Kingdom), Gesa Raffenbeul, Torsten Gerriet Blum, Jens Kollmeier, Daniel Misch, Monica Schäfer, Susann Stephan-Falkenau, Anna Streubel, Sebastian Thiel, Thomas Mairinger, Torsten Bauer

PA1690 Study of current trend of thoracic malignancy in young adults 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

PA1691 Non small cell lung cancer: options and outcome of treatment beyond second line
Tamás Erdélyi (Budapest, Hungary), Andrea Bíró, Zsombor Matics, Lilla Koch, Lilla Tamási, Veronika Müller

PA1692 Pembrolizumab versus nivolumab as second and further line treatment in non-small lung cancer; a retrospective single-centre study
Maria Mitsogianni (Athens, Greece), Maria Mitsogianni, Dimitrios Vassos, Ilias Kotteas, Vasileios Patriarcheas, Antonios Vassias, Lamprini Stournara, Ioannis Pourkani, Dimitra Stefanou, Andriani Charpidou, Konstantinos Syrigos

PA1693 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, Daniela Araújo, Diana Pimenta, Lurdes Ferreira

PA1694 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 Cîn, Venceslau Hespanhol, Henrique Queiroga, Gabriela Fernandes

PA1695 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 Alvarez Martínez, Pablo Lozano Cuesta, Omar Sánchez Martin, Maria Arias Fuente, Lucia Castallanos Romero, Luis Carlos Rodríguez 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, 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 abdelkhir (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, Tahar Mestiri, Agnes Hamzaoui, Hazem Zribi, Adel Marghli

Place of major resection in treatment of pulmonary hydatid cyst: report of 403 cases.
amina abdelkhir (ben arous, Tunisia), Imen Bouassida, Houcem Messaoudi, Hazem Zribi, Sarra Maazaoui, Maha Touaibia, Ayda Ayedi, Adel Marghli

Treatment of relapsed hydatid disease of lungs.
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Dilyara Mazinova

When conservative surgery is sufficient in treatment of pulmonary aspergilloma?
amina abdelkhir (ben arous, Tunisia), Imen Bouassida, Manel Chemakh, Hazem Zribi, Sarra Maazaoui, Mouna Mlika, Tahar Mestiri, Adel Marghli

Mycobacterial non-tuberculosis infection in patients operated on for pulmonary tuberculosis
Vilayat Aliyev (Moscow, Russian Federation), Larisa Lepeha, Elena Krasnikova, Tatyana Smirnova, Svetlana Sadovnikova, Mamad Bagirov

The surgical treatment of lung bronchiectasis.
Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimiy

Solitary Fibrous Tumours (SFTs) of Pleural and Lungs; rare yet challenging from a surgical and clinical aspect
Ioannis Karahalidis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Violetta Lampersa, Panagiotis Demertzis, Nikolaos Anastasiou

The features of rare pulmonary tumors and their surgical treatment
Evgenii Zinchenko (Saint-Petersburg, Russian Federation), Vadim Pischik, Aleksander Kovalenko, Olga Maslak

Incidence of atrial fibrillation after lung resection surgery and correlation with right atrial strain
Sheenam Walia (Chandigarh, India), G D Puri

Pneumonectomy is an injury or still an effective method of treatment?
Kalliopi Anthisiadi (Athens, Greece), Ioannis Alevizakis, Aikaterini Katsandri, Dimitrios Magouliotis, Aikaterini Maragkouti, Konstantina Romanou, Niki Giannou, Ioanna Sigala, Konstantinos Antonopoulos, Pantelis Kourgiottakis, Michael Vasilmatzis, Christina Routsi, Spyridon Zakyntinos

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 Atvetisyans, Evgeny Sokolovich, Pyotr Yablonskii
PA1711 Transtracheal 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)

PA1712 Late Breaking Abstract - The guillotine technique for artery and bronchus in VATS lobectomy
Huseyin Yildiran (Konya, Turkey), Guven Sadi Sunam

PA1713 Anterior mediastinal plasty during pneumonectomy as prevention of mediastinal hernia in patients with widespread pulmonary tuberculosis.
Elena Krasnikova (Moscow, Russian Federation), Anush Ergeshova, Vilayat Aliev, Ruslan Tarasov, Mamed Bagirov

PA1714 Multidisciplinary approaches in the surgical treatment of cicatrical stenosis of the trachea.
Rustem Hayalielv (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otabek Eshonkhodjaev

PA1715 Is it futile to perform blindly apical wedge resection in primary spontaneous pneumothorax surgery?
Cagatay Tezel (Istanbul, Turkey), Mustafa Vayvada, Yelda Tezel

PA1716 Thoracic surgery in the elderly
Filipa Lemos e Aguiar (Paredes, Portugal), Pedro Fernandes, Miguel Guerra

PA1717 Individualized flow controlled ventilation compared to pressure controlled ventilation in one lung ventilation - a prospective, randomized porcine study
Patrick Spräider (Innsbruck, Austria), Julia Abram, Manuela Ranalter, Simon Mathis, Gabriel Putzer, Judith Martini

PA1718 Pleurectomy/decortication for malignant pleural mesothelioma: a single-centre experience.
Lauwck Berzenji (Wilrijk, Belgium), Dario Michaux, Suresh Krishan Yogeswaran, Annemie Van Breussegem, Patrick Lauwers, Jo Raskin, Jeroen Hendriks, Jan Van Meerbeeck, Paul Van Schil

PA1719 Efficacy of lung volume reduction surgery in tracheotomized patients and weaning failure
Ali AkiI (Ibbenbueren, Germany), Stephanie Rehers, Stephan Ziegeler, Mahyar Lavae-Mokhtari, Erik Ernst, Stefan Fischer

PA1720 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

PA1721 Video-assisted thoracic surgery for patients with bronchiectasis
Güntug Batihan (Izmir, Turkey), Kenan Can Ceylan, Şeyda Örs Kaya, Ozan Usluer, Soner Gürsoy

PA1722 Feasibility of extracorporeal membrane oxygenation in high-risk thoracic surgery
taehwa kim, Yun Seong Kim, Eun Jeong Son, Jin Ho Jang, Jinho Jang, Jae Heun Chung

PA1723 Primary tracheal tumors: characteristics and management
amina abdelkhir (ben arous, Tunisia), Aymen Ben Ayed, Imen Bouaccida, Mahdi Abdenadher, Mouna Mlika, Amira Dridi, Hazem Zribi, Adel Marghi

PA1724 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 Cerasuolo, Fairuz Boujibar, Antoine Cuvelier

PA1725 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

PA1726 Could staple-line reinforcement on video-assisted thoracoscopic blebectomy prevent postoperative recurrent pneumothorax?
Masao Naruke (Tokyo, Japan)

PA1727 Numbers and Stations: Impact of Examined Lymph Node on Precise Staging and Survival of Radiologically Pure-Solid Non-Small Cell Lung Cancer
Donglai Chen (Shanghai, China), Chang Chen, Yongbing Chen
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-Kulawik (Warszawa, Poland), Dragana M. Jovanov (Beograd, Republic of Serbia)

PA1732 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 Barisik, Sule Karabulut Gul

PA1733 Downregulation of mir-146a in peripheral blood mononuclear cells as a potential marker of NSCLC
Esmaeil Mortaz (Tehran, Islamic Republic of Iran), Neda K Dezfuli, Shamila D Alipour, Neda Dalil Roofchayee, Adnan Khoosravi, Babak Salimi, Ian Adcock

PA1734 A novel serum biomarker of type XXVIII collagen turnover is elevated in lung cancer but not in COPD
Annika Hummersgaard Hansen (Herlev, Denmark), Jennie Marie Bülow Sand, Diana Julie Leeming, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Alexander Lyng Reese-Petersen, Federica Genovese

PA1735 Evaluation of serum levels of Sirtuin-1 in lung cancer patients
Hassan Ghobadi-Marallu (Arad, Islamic Republic of Iran), Saeid Hosseininia, Aslan Ameli, Farhad Pourfarzi, Mohammad Reza Aslani

PA1736 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

PA1737 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

PA1738 Response to Immunotherapy in non-small cell lung cancer: the effect of weight
Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Adelaida Alves, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso

PA1739 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 Rzepceki, Joanna Domagala-Kulawik

PA1740 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

PA1741 Prognostic value of neutrophil to lymphocyte ratio in small cell lung cancer
Alia Ezzouaouia (Tunis, Tunisia), Hajer Racil, Hager Kechouk, Sarra Maazaoui, Sonia Habibech, Aida Ayadi, Naouel Chaouch

PA1742 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
Causal RNA signatures in lung adenocarcinoma
Georgia Giotopoulou (Munich, Germany), Mario Pepe, Sabine Behrend, Giannoula Ntaliarda, Anne-Sophie Lamort, Ioannis Lillis, Magda Spella, Georgios Stathopoulos

Association between H-RAS T81C genetic polymorphism with non-small cell lung cancer
Chuen-Ming Shih (Taichung, Taiwan), Yao-Ling Lee

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 Diaz, 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

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

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

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

Endothelial dysfunction and its corrections in patients with severe community-acquired pneumonia (CAP)
Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Tetiana Kirieieva, Tetyana Perteve

Pre-congress content Session 129 00:00 - 23:59

Results of vaccination against pneumococcal infection in patients with chronic heart failure
Angelina Kraposhina (Krasnoyarsk, Russian Federation), 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

Community acquired legionella pneumonia: cardiovascualr events and survival
Leyre Serrano Fernandez (Bilbao, Spain), Luis Alberto Ruiz Iturria, 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)
Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Tetiana Kirieieva, Tetyana Perteve
Community acquired pneumonia: an increased risk for subsequent cardiovascular events?
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloísa Silva, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro

Acute Pneumonia and PSI: is it possible to prevent a cardiovascular event?
Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain), Javier Poyo Molina, Irene Juanes Dominguez, Maria Begona Lahidalga Mugica, Maria Concepcion Bello Mora, Angel Maria Alonso Gomez, Lucas Tojal Sierra, Jose 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 Echea, Joseba Andia Iturrate, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Pedro Pablo Espánder Yandiola, Rafael Zalacain Jorge

Pre-congress content
Session 130 00:00 - 23:59
E-poster session: What is hot in idiopathic pulmonary fibrosis?
Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care  Public health  Imaging  Epidemiology  Pulmonary function testing
Chairs: Michael Kreuter (Heidelberg, Germany), Claudia Valenzuela (Madrid, Spain)
PA1789 Effects of nintedanib in patients with IPF: subgroup analysis by Charlson Comorbidity Index (CCI)
Elisabeth Bendstrup (Vejle, Denmark), Francesco Bonella, Elena Bargagli, Fabian Caro, Marilyn Glassberg, Birgit Schinzel, Manuel Quaresma, Leticia Orsatti, Ian Glaspole

PA1790 Hiatus hernia and interstitial lung abnormalities
Peter George (London, United Kingdom), Tomoyuki Hida, Rachel Putman, Sujal Desai, Anand Devaraj, Sacheen Kumar, John Mackintosh, Vilmuturd Gudnason, Hiroto Hatabu, Gunnar Gudmundsson, Gary Hunninghake

PA1791 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 Stercelová, Nesrin Mogulkoc, Katarzyna Lewandowsk, Veronika Müller, Marta Hájková, Mordechai Kramer, Jasna Tekavec-Trkanjec, Michael Studnicka, Natalia Stoeva, Biserka Jovovska Kaeva, Simona Litinnoverová, Marina Roksandić Milenković, Martina Vasakova

PA1792 Clinical value of cluster analysis of unclassifiable idiopathic interstitial pneumonias phenotypes
Yutaro Nakamura (Hamamatsu, Japan), Tae Iwasawa, Shiochihiro Matsushita, Yasuhiro Terasaki, Shinobu Kunugi, Hideya Kitamura, Kazutaka Mori, Hideki Yasui, Tomoyuki Fujisawa, Takafuli Suda

PA1793 Early decrease in erector spinae muscle area and future risk of mortality in idiopathic pulmonary fibrosis
Akiko Nakano, Hirotsugu Ohkubo, Hiroyuki Taniguchi, Yasuhiro Kondoh, Toshiaki Matsuda, Mitsuaki Yagi, Taiki Furukawa, Yoshihiro Kanemitsu, Akio Niimi

PA1794 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 Kirchgaessler, Carlo Vanchieri

PA1795 Reliability of home spirometry in idiopathic pulmonary fibrosis
Catharina Moor (Rotterdam, Netherlands), Rémy Mostard, Jan Grutters, Paul Bresser, Joachim Aerts, Niels Chavannes, Marlies Wijsenbeek

PA1796 Mapping IFF 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

PA1797 Low income and progression free survival in idiopathic pulmonary fibrosis: an association to uncover

PA1798 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
Phil Molyneaux (London, United Kingdom), 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, Catherine Spinks, Andrew Wilson, Lisa Spencer

PA1799 Quantitative CT for the assessment of disease severity in interstitial lung disease
David G. Parr (Coventry (West Midlands), United Kingdom), Emma Helm, Joanna Shakespeare, Rhian Hughes, Abhir Bhalerao

PA1800 The value of the surprise question to predict mortality in idiopathic pulmonary fibrosis
Nelleke Tak (Rotterdam, Netherlands), Catharina Moor, Catherine Owusuua, C. Van Der Rijt, Marlies Wijsenbeek

PA1801 PREVALENCE AND CHARACTERISTICS OF PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS ADMITTED FOR PNEUMONIA ACQUIRED IN THE COMMUNITY.
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), 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

PA1802 Pirfenidone in unclassifiable ILD (uILD): subgroup analysis of patients with/without a surgical lung biopsy (SLB)
Vincent Cottin (Lyon, France), Tamera J. Corte, Michael Kreuter, Maria Molina-Molina, Judit Axmann, Frank Gilberg, Klaus-Uwe Kirchgaessler, Toby M. Maher

PA1803 Dynamics of diagnoses and pharmacotherapy before and after diagnosing idiopathic pulmonary fibrosis
Jesper Romhild Davidsen (Odense C, Denmark), Lars Christian Lund, Christian B. Laursen, Jesper Hallas, Daniel Pilsgaard Henriksen
**Pre-congress content**

**Session 131 00:00 - 23:59**

**E-poster session: Natural history and management of interstitial lung diseases of known cause**

**Disease(s):** Interstitial lung diseases  Thoracic oncology  Pulmonary vascular diseases

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

**Chairs:** Peter Saunders (London, United Kingdom), Donato Lacedonia (Molfetta (BA), Italy)

**PA1804 IMPACT OF IPF PATIENT SUPPORT PROGRAM IN QUALITY OF LIFE**

**PA1805 Hypersensitivity pneumonitis in an Interstitial Lung Disease Unit, 5 years’ experience**
Amaia Urrutia Gajate (Bilbao (Bizkaia), Spain), Alejandro Rezola Carasusan, Borja Ortiz De Urbina, Marta Garcia Moyano, Rafael Zalacain Jorge, Luis Alberto Ruiz Iturriaga, Leire Serrano Fernandez, Carmen Jaca Michelenela, Beatriz Gomez Crespo

**PA1806 Chest Imaging Abnormalities in Patients with Uncontrolled Rheumatoid Arthritis Prior to Biological Therapy Initiation**
Amelia Benjamin (London, United Kingdom), Katie Ward

**PA1807 Clinico-radiological profile of connective tissue diseases related interstitial lung diseases**
Mehul Agarwal (Ajmer, India), Manohar Lal Gupta, Neha Bharti, Gopal Chawla

**PA1808 Use of mycophenolate mofetil for the treatment of hypersensitivity pneumonitis**
Eduardo Antonio Velez Segovia (Barcelona, Spain), Xavier Vidal Guitart, Ana Villar Gomez

**PA1809 The prediction of risk factors of tyrosine kinase inhibitor-induced pneumonitis in non-small cell lung cancer**
Hyo Jae Kang (Goyang, Republic of Korea)

**PA1810 Characteristics of a prospective cohort of patients with IPAF (Interstitial Pneumonia with Autoimmune Features) by Neumollogists and Reumatologists of Madrid. IPAF-NEREM STUDY**
Mª Asuncion Nieto Barbero (Madrid, Spain), Cristina Vadillo Font, Mª Jesús Rodríguez-Nieto, Olga Sánchez Perneute, Fredeswinda Isabel Romero Bueno, Rosalia Laporta Hernández, Belén López Muñiz Ballesteros, Laura Cebrián Martínez, Mª Teresa Rio Martinez, Gemma Maria Mora Ortega, Tatiana Cobo Ibáñez, Lydia Abásolo Alcazar

**PA1811 Relationship between horizontal adductor muscles strength and pulmonary functions in idiopathic pulmonary fibrosis**
Habibe Durdu (İstanbul, Turkey), S. Ufuk Yurdalan, Ipek Özmen

**PA1812 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

**PA1813 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

**PA1814 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

**PA1815 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 Aguilar, Margarida Ferreira, Diego Gonçalo Ferreira

**PA1816 Exploring barriers to Pirfenidone adherence in patients with idiopathic pulmonary fibrosis: a prospective study**
anouk delameillieure (Brussel, Belgium), Fabienne Dobbels, Katleen Leeceuvre, Danielle Strens, Patrick Simaels, Karolien Verheyen, Jonas Yserbyt, Wim Wuys

**PA1817 Use of Rituximab in the treatment of CTD-ILD in RA patients.**
Francesco Bini (Pavia (PV), Italy), Dina Visca, Angelo De Laurentis, Bruno Bodini, Daniele Colombo, Paola Faverio, Adriano Vaghi
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 (Tyne and Wear), United Kingdom), Afroditi Boutou (Thessaloniki, Greece)

**PA1820**
**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 Yonnossian, Paola Gasche, Jean-Louis Pépin, Jean-Paul Janssens

**PA1821**
**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

**PA1822**
**Changes in SPPB during hospital admission for AECOPD**
Hamish Mcauley (Leicester, United Kingdom), Michelle Craner, Bharti Patel, Michael Steiner, Neil Greening

**PA1823**
**The effect of pulmonary rehabilitation during chest radiotherapy in patients with malignancy**
Myeong Guen Choi (Seoul, Republic of Korea), Sei Won Lee

**PA1824**
**Sexuality in Chronic Obstructive Pulmonary Disease (SEXY COPD)**
Claudia Steurer-Stey (Zürich, Switzerland), Alexandra Strassmann, Kaba Dalla Lana, Johann Gauer, Anja Frei, Milo Puhan

**PA1825**
**User experiences and perceived effectiveness of an eHealth self-management intervention in COPD patients with heart failure**
Anke Lenferink (Oldenzaal, Netherlands), Joanne Sloots, Aniel Ramlal, Paul Van Der Valk, Tanja Effing, Job Van Der Palen, Constance Drossaert

**PA1826**
**Effectiveness of inspiratory plus expiratory neuromuscular electrical stimulation in the rehabilitation of patients with severe COPD**
Zhiling Zhao (Beijing, China), Xiaojuan Wang, Wuzhuang Sun, Xiaoyun Zhao, Yingxiang Lin, Shu Zhang, Zhaohui Tong

**PA1827**
**Pulmonary rehabilitation and cognitive impairment in COPD patients.**
Sara Ramponi (Cingia de’ Botti (CR), Italy), Maurizio Marvisi, Alberto Baiguera, Andrea Romani, Laura Balzarini, Roberta Baronio, Silvia Favenzani, Chiara Mancini

**PA1828**
**Efficacy of Occupational Therapy in patients with COPD**
Alex J Van ’t Hul (Bavel, Netherlands), Noortje Koolen, Martijn Spruit, Elieke Nijhuis, Marianne De Man, Jeanine Antons, Nienke Nakken, Daisy Janssen

**PA1829**
**The impact of silver ions on decrease in sputum viscosity among the patients with asthma**
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Elena Bogdanova, Alexander Emelyanov, Anatoliy Fesyun, Andrei Rachin, Gleb Barashkov, Anfisa Nikitina, Andrei Popov

**PA1830**
**The five-repetition sit-to-stand test (5STS) in patients with bronchiectasis: validity and responsiveness**
Suhani Patel (London, United Kingdom), Ruth Barker, Jessica Walsh, Oliver Polgar, Claire Nolan, William Man

**PA1831**
**Complex need of care in patients with chronic respiratory failure starting home mechanical ventilation**
Roy T.M. Sprooten (Cadier en Keer, Netherlands), Bettine A.H. Vosse, Sander C.M. Steyns, Marijke Rutten, Nicolle A.M. Cobben, Geertjan Wesseling

**PA1832**
**Effect of the trajectory of exertional breathlessness on symptom recall and prediction: a randomized controlled trial**
Magnus Ekström (Lyckeby, Sweden), Viktor Elmberg

**PA1833**
**Safety and efficacy of home-based pulmonary rehabilitation in patients with pulmonary hypertension: Feasibility study of 12 cases**
Takeshi Inagaki (Chiba, Japan), Jiro Terada, Nobuhiro Tanabe, Naoko Kawata, Hajime Kasai, Toshihiko Sugiuira, Ayako Shigeta, Atsushi Murata, Seichiro Sakao, Koichiro Tatsumi
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)

**PA1839**  
Characteristics and clinical management of IPF patients in Spain: prospective, observational, multicentric study (OASIS study).
Ana Dolores Romero Ortiz (Granada, Spain), Maria Jesús Rodriguez-Nieto, Ana Villar, Esteban Cano-Jiménez, Alba Ramón, Silvia Armengol, Elena Alhaja, Maite Artés

**PA1840**  
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

**PA1841**  
Acute Exacerbation of IPF - Experience of a Portuguese RICU
Joana Rodrigues Barbosa (Lisboa, Portugal), Sara Salgado, Paula Esteves, Cristina Bárbara

**PA1842**  
Russian IPF Registry: time of inclusion impacts patients' status
Svetlana Yu. Chikina (Moscow, Russian Federation), Sergey Avdeevev, Igor Tyurin, Alexander Cherniak, Zamira Merzhoeva

**PA1843**  
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

**PA1844**  
Prevalence of idiopathic pulmonary fibrosis in Japan and the US: a claims-based retrospective study
Yasuhiro Kondoh (Seto (Aichi), Japan), Takafumi Suda, Yoshide Hongo, Manami Yoshida, Shinzo Hiroi, Kosuke Iwasaki, Tomomi Takeshima, Sakae Homma

**PA1845**  
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 Özge

**PA1846**  
Factors influencing best tolerated dose of pirfenidone (PFD) in patients with IPF
Neha Agrawal Mandovra (Indore (Madhya Pradesh), India), Preyas Vaidya, Ria Shah, Vinod Chavhan, Joerg Leuppi, Anne Leuppi-Taegtemeyer, Prashant Chhajed

**PA1847**  
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, Kensuke Kataoka, Takashi Ogura, Shinyu Izumi, Susumu Sakamoto, Yoshinobu Saito, Kizuku Watanabe, Yasuo Shimizu, Motoyasu Kato, Naohiko Inase

**PA1848**  
Efficacy of low dose pirfenidone in idiopathic pulmonary fibrosis: Real world experience from a tertiary university hospital
Song Yee Kim (Seoul, Republic of Korea), Juhye Shin, Myung Jin Song, Moo Suk Park, Young Ae Kang

**PA1849**  
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, Poomima Mahavadi, Mark Stoehr, Jochen Wilhelm, Raphael Majeed, Philippe Bonniaud, Carlo Vancheri, Athol U. Wells, Werner Seeger, Bruno Crestani, Andreas Guenther
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**Pre-congress content**

**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)

| PA1859 | Chronic thromboembolic pulmonary hypertension in acute pulmonary embolism: A risk factor evaluation study |
| PA1860 | Predictors of Residual Pulmonary Vascular Obstruction after Pulmonary Embolism: results from a prospective cohort study |
| PA1861 | The relationship of thrombus localization with prognosis and chronic thromboembolic pulmonary hypertension in acute pulmonary thromboembolism |
| PA1862 | Pulmonary thromboembolism in childhood: Six years of single center experience |
| PA1863 | Comparison of side effects between thrombolytic and anticoagulation therapy in patients with Pulmonary Embolism |
| PA1864 | Analysis of Causes of Diagnostic Difficulties and Features of Clinical Course of Pulmonary Embolism |

**PA1850** Impact of tidal volume, GAP index and anti-fibrotic treatment on disease progression and mortality in IPF patients

Ekaterina Krauss (Giessen, Germany), Brahima Air Ilalne, Christine Knittel, Joehn Wilhelmi, Ruth C. Dartsch, Silke Tello, Poornima Mahavadi, Martina Korfei, Werner Seeger, Bruno Crestani, Andreas Guenther

**PA1851** Prevalence and Characteristics of Patients Receiving Antifibrotic Therapy for Idiopathic Pulmonary Fibrosis

Ying Qiu (, United States of America), Ying Qi, Ruizhi Zhao, Brandon Elpers, Yuexi Wang, Lin Xie, Jackson Tang, Aryeh Fischer

**PA1852** 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, Marialuisa Bocchino, Umberto Malapelle

**PA1853** 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

**PA1854** 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, Yuko Tanaka, Hirofumi Watanabe, Yutaro Kishimoto, Kyohet Oishi, Mika Saigusa, Akito Yamamoto, Satoru Morita, Kazuhiro Asada, Toshihiro Shirai

**PA1855** Nintedanib in IPF: post hoc analysis of the Italian FIBRONET observational study

Venerino Polletti (Forli, Italy), Carlo Albera, Sergio Harari, Alberto Pesci, Alessandra Ori, Giovanna Crespi, Benedetta Campolo, Carlo Vancheri

**PA1856** 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 Inigo Naranjo, Santiago Hernandez Gomez, Amparo Sanz Cabrera

**PA1857** GAP scoring system in IPF patients treated with antifibrotics: prognostic performance and 1- to 3- years mortality: a retrospective study

Lauresn De Sadeleer (Leuven, Belgium), Tinne Goos, Jonas Yserbyt, Stijn E Verleden, Wim A Wuyts

**PA1858** Characterize Idiopathic Pulmonary Fibrosis using Respiratory Oscillometry

Joyce Wu (Richmond Hill, Canada), Anastasia Vasileva, Ehren Chang, Jin Ma, Qian Huang, Antonio Cassano, Matthew Binnie, Shane Shaper, Jolene H. Fisher, Clodagh M. Ryan, Chung-Wai Chow
**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 García García

**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 Mcedam, Michael Lee, Ross Morgan, Emmet O'Brien

**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

**Does abdominal-pelvic CT detect occult malignancy in patients with unprovoked pulmonary embolism?**
Bana Hawrany (Cleckheaton, United Kingdom), Julian Ting, Dipansu Ghosh

**What is the incidence of pleural effusions in acute pulmonary emboli?**
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson

**Changes in heart rate variability during psychological stress in cardiorespiratory failure patients**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Guadalupe Lizbeth Luna Rodríguez, Viridiana Pelaéz-Hernández, Laura Arely Martínez-Bautista, Karla Letizia Rosales-Castillo, Karen Aidee Santillán-Reyes, Arturo Orea-Tejeda, Manuel Abraham Gómez-Martinez, Rocío Sánchez-Santillán, Juan José Orozco-Gutierrez, Ilse Del Carmen Pérez-García, Nathalie Martinez-Luna, Yael Ramiro Gastelum-Ayala

**Diffuse Alveolar Hemorrhage: a life-threatening adverse effect of vaping**
Dominika Ambrożej (Warsaw, Poland), Teresa Bielecka, Wojciech Feleszko, Katarzyna Krenke

**Changes in oxygenation following steroid administration in patients diagnosed with e-cigarette, or vaping, associated lung injury (EVALI)**
Denitza Blagev (Salt Lake City, United States of America), Dixie Harris, Sean Callahan, Braden Anderson, Dave Collingridge, Susan Rea, David Guidry, Colin Grissom, Michael Lanspa

**Smoking types and EVALI awareness in young Russian smokers**
Valentina Kapustina (Moscow, Russian Federation), Anna Buchneva

**Impact of e-liquid composition on the emission and inhalation of carbonyl compounds**
Efthimios Zervas (Patra, Greece), Niki Matsouki, Evaggelia Bekou, Paraskevi Rodopoulou, Paraskevi Katsaounou

**Electronic cigarette use strongly associated with respiratory diseases: Results from Russian Tobacco Control Policy evaluation survey**
Makiko Kanai (Kyoto, Japan), Osamu Kanai, Tadashi Mio

**Emissions of Inhaled Benzene, Toluene, Ethylbenzene and Xylene from Slim, Classic and Heated Cigarettes**
Efthimios Zervas (Patra, Greece), Saida Mukhanova, Niki Matsouki, Alma Shopabayeva, Talgat Nurgozhin, Stavros Poulopoulos, Paraskevi Katsaounou

**Assessment of lung function in symptomatic and asymptomatic smokers without Chronic Obstructive Pulmonary Disease (COPD) using the Impulse Oscillatory Technique (IOT)**
Ioanna Tsiouprou (Greece), Dionisios G. Spyrapotos, Konstantinos Porpodis, Athanasia Pataka, Theodoros Kontakiotis

**The clinical significance of exhaled nitric oxide in adolescent smokers**
Anastasiia Fialkovska (Dnipro, Ukraine), Svitlana Ilchenko

**The Effects of Substance Use Disorder on Respiratory Function Parameters and Functional Capacity in Istanbul**
Rustem Mustafaoğlu (Istanbul, Turkey), Aslı Görek Dilektaşlı, Rengin Demir, Emrah Zirek, Tansu Birinci, Ebru Kaya Mutlu, Cuneyt Evren, Arzu Razak Ozdinciler
PA1881 Blood eosinophil levels and exacerbations in a cohort of biomass and tobacco-related COPD patients at high altitude (2600 m)
Olga Milena Garcia Morales (Bogotá, Colombia), Carlos Celis-Preciado, Maria Nely Rodriguez, Violeta Avendaño, Alejandra Cañas-Arboleda, Paola Rodriguez, Leonardo Galindo, Andres Gonzalez

PA1882 Does DNA methylation levels change in smokers?
Mehmet Uysal (İstanbul, Turkey), Halit Cinarka, Yelda Ozgun Nıksarılıoğlu, Yasemin Oyaci, Sacide Pehlivan

PA1883 Aortic stiffness in young smokers classified as chronic bronchitis: the British Lung Foundation (BLF) Early COPD cohort
Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Andrew Ritchie, Gavin Donaldson, Jadwiga Wedzicha, Charlotte Bolton

PA1884 Exposure to second-hand smoking during childhood and/or adulthood as a risk factor for respiratory disease
Nanna Smedengaard (Køge, Denmark), Morten Dahl, Eskild Landt

PA1885 The association of high nicotine metabolism ratio with COPD in smokers undergoing a smoking cessation program.
Aldo Pezzuto (Rome, Italy), Marina Borro, Luana Lionetto, Alberto Ricci, Giulio Guerrieri, Dario Pizzirrusso

PA1886 Inhaler recycling prevalence in a secondary care clinic in England
Ruth De Vos (Southampton (Hampshire), United Kingdom), Hitasha Rupani, Jayne Longstaff, Alexander Hicks, Lauren Fox, Laura Wiffen, Tom Brown, Anoop Chauhan

PA1887 Association of Environmental Tobacco Smoke Exposure with Carotid Intima Media Thickness in healthy children and adolescents: a systematic review
Siyu Dai (Hong Kong, Hong Kong), Kate Ching Ching Chan

Pre-congress content  Session 136  00:00 - 23:59

E-poster session: Respiratory homeostasis and structural changes in disease

Disease(s):  Airway diseases  Interstitial lung disease
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)

PA1888 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

PA1889 Eosinophil subtypes' effect on airway smooth muscle cells differentiation and migration in asthma
Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Egle Jurkeviciute, Airidas Rimkunas, Beatrice Tamasauskaitė, Virginija Kalinskaite-Zukauske, Jolita Palacionyte, Kestutis Malakauskas

PA1890 Let-7 promotes airway remodeling via regulation of IL-6 in chronic obstruction pulmonary disease
Tao Bian (Wuxi, China), Tingting Di

PA1891 Latent TGF-β 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

PA1892 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

PA1893 Stereological approach to the pathology of lung aging in humans
Fabricio Santos (Diadema, Brazil), Francesca Luca Froio, Gabriel Ribeiro Júnior, Mariana Matera Veras, Lisie Justo, Paula Saldiva, Natalia De Souza Xavier Costa, Thais Mauad

PA1894 The role of airways 17ß-estradiol as a biomarker of severity in post-menopausal asthma
Maria Giovanna Palumbo (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Carla Maria Irene Quarato, Giorgia Lepore, Anna Del Colle, Ammarita Depalo, Maria Luisa Colucci, Giovanna Elisiana Carapagno, Piera Socco, Maria Pia Foschino Barbaro

PA1895 Urine 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

PA1896 Epithelial anion secretion of human bronchial ciliary epithelium.
Shigeuki Hosogi (Kyoto, Japan), Nobuyoshi Tamiya, Leonardo Puppulin, Hideo Tanaka, Koichi Takayama, Eishi Ashihara
Pre-congress content Session 137 00:00 - 23:59

E-poster session: Rare lung diseases and lung manifestations of extrapulmonary diseases

- **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)

- PA1904 Improving Primary Ciliary Dyskinesia diagnosis using Artificial Intelligence
  - Andreia Lucia do Nascimento Pinto (London, United Kingdom), Laurenes Hogeweg, Oliver Hamilton, Ioannis Katramados, Amelia Shoemark, Thomas Burgoyne, Claire Hogg
- PA1905 Oscillometry (OSC) to assess respiratory function in rare neuromuscular disease with respiratory muscle weakness (NMD).
  - Arash Rad (Montreal, Canada), Marta Kaminska, Basil J. Petrof, Larry C. Lands, Zoltan Hantos, Ronald J. Dandurand, Stewart B. Gottfried
- PA1906 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 Buchvald, Lars Pedersen, James W. Dodd, Vibeke Backer, Kim G. Nielsen, Andrew Getzin, James H. Hull
- PA1907 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
- PA1908 Investigation of granulomatous lung diseases in cases with granulomatosis ocular pathologies
  - Zuleyha Bingol (Istanbul, Turkey), Tulin Cagatay, Gülfır Okumuş, Merih Oray, Sehan Dagıstanlı, Zeki Kilicaslan, Ilknur Tugal – tutkan
- PA1909 Altered exhaled NO parameters in newly onset of rheumatoid arthritis
  - Marieann Högman (Uppsala, Sweden), Alexandra Thomadsson, Anders Lind, Thomas Weitoft
- PA1910 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
- PA1911 Comprehensive study of the mucociliary system in patients with chronic obstructive pulmonary pathology
  - Vyacheslav Kobylansky (Moscow, Russian Federation)
- PA1912 Clinical profile of Tropical Pulmonary Eosinophilia (TPE) in Bihar, India
  - Saket Sharma (Patna (Bihar), India)
- PA1913 Rate of respiratory symptoms in naïve patients with Chronic lymphocytic leukemia
  - Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko
**PA1914**

**Vascular anomalies causing airway compression: six-year single center experience**

Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Mehmet Ramoğlu, Tayfun Uçar, Hasan Ercan Tutar, Fatma Nazan Çobanoğlu

**PA1915**

**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 Salvado

**PA1916**

**Spontaneous resolutive pulmonary necrotizing granulomatosis**

Bastien Weicker (Belgium), Adeline Rosoux, Isabelle Gielen, Bruno Coulier, Richard Fognier

**PA1917**

**Impact of the alveolar-arterial oxygen gradient on prognosis after liver transplantation in adults: a single-center experience.**

Alberto García Ortega (Valencia, Spain), Ana Torrents Villar, Marcos Prado Barragán, Grace Oscullo Pepe. Antonio Cañada Martínez, Lorena Puchades Renau, Julia Herreras López, Rafael López Andújar, Raquel López Reyes

**PA1918**

**Respiratory complication rate after scoliosis surgery in children with cerebral palsy.**

Marijke Proesmans (Leuven, Belgium), Elke Vandendriessche, Pierre Moens, Els Ortibus

**PA1919**

**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**

**E-poster session: Molecular insights into paediatric disease**

**Disease(s):** Airway diseases

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

**Chairs:** Miguel Angel Alejandre Alcázar (Köln, Germany), Chair to be confirmed

**Pre-congress content**

**Session 139**

**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)

**PA1920**

**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, Kaouther Masmoudi

**PA1921**

**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

**PA1922**

**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

**PA1923**

**Exertional ventilatory and gas exchange inefficiency: contrasting interstitial versus pulmonary vascular disease**

Nathalia Mendes (Porto Alegre, Brazil), FERNANDA BALZAN, Franciele Plachi, Igor Cézar, Lídia Cé, Kimbrelli Käfer, J Alberto Neder, Danilo Berton

**PA1924**

**The effect of high flow oxygen during constant-load cycling test in severe ILD patients.**

Yara Al Chikhanie (Dieulefit, France), Frédéric Hérent, Samuel Vergès, Daniel Veale

**PA1925**

**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 Sherafiev, Ainura K. Abdraeva, Shaia Aydaralieva, Ayberme Myratbekova, Talantbek M. Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch

**PA1926**

**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
**PA1927**
*Effects of oxygen supplementation during exercise on hemodynamic responses in patients with pulmonary arterial hypertension*
Afroditi Boutou (Thessaloniki, Greece), Konstantina Dipla, Antreas Zafeiridis, Stavros Papadopoulos, Anastasia Chatzikost, Aikaterini Markopoulou, Ioannis Stanopoulos, Georgia Pitsiou

**PA1928**
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

**PA1929**
*Hypoxic training to improve exercise capacity in obesity: a randomized controlled trial*
Samuel Vergès (Grenoble, France), Samarmar Chacaroun, Anna Borowik, Ignacio Vega-Escamilla Y Gonzalez, Stéphane Doutreleau, Bernard Wuyam, Elise Belaidi, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore

**PA1930**
*Physiological responses to passive hypoxic conditioning in obesity: a randomized controlled trial*
Samuel Vergès (Grenoble, France), Samarmar Chacaroun, Anna Borowik, Stéphane Doutreleau, Elise Belaidi, Bernard Wuyam, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore

**PA1931**
*Effect of nocturnal oxygen therapy on next-day exercise performance of COPD patients at 2048m. Data from a RCT.*
Sophia Gutwenger (Zürich, Switzerland), Tsogyal D. Latshang, Sayaka S. Aesebacher, Fabienne Huber, Deborah Flueck, Mona Lichtblau, Stefanie Ulrich, Elisabeth D. Hasler, Philipp M. Scheiwiller, Silvia Ulrich, Konrad E. Bloch, Michael Furian

**PA1932**
*A novel approach for automated alveolar morphometry using synchrotron X-ray microtomography in intact rat lung*
Bertrand Maury (- PARIS cedex 05, France), Hugo Leclerc, Benoît Semin, Sébastien Martin, Lucas Fardin, Sam Bayat, Hervé Guénard

**PA1933**
*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

**PA1934**
*Feasibility and reproducibility of oscillimetry for measuring respiratory function in young children: the SEPARAGES cohort*
Sam Bayat (Grenoble, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoan Goria, Rémy Slama, Isabelle Pin, Valérie Sioux

**PA1935**
*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 Pitarì, Stefano Pavesi, Federico Raveglia, Alessandro Baisi, Stefano Centanni

**PA1936**
*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

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**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)

- **PA1937**
  *Tacrolimus versus cyclosporine for lung transplant recipients in Portugal*
  David Tavares Teixeira Silva (Povoada de Santo Adriano, Portugal), Carolina Dantas, Madalena Emiliano, Luisa Semedo, João Cardoso

- **PA1938**
  *Prevalence and outcomes of diabetes in lung transplant recipients: the portuguese experience*
  Marília Inês de Sousa Moreira ( Lisboa, Portugal), Sara Silva, Ana Raquel Magalhães, Sara Alfarroba, Luisa Semedo, João Cardoso

- **PA1939**
  *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 Bestard, 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 Daffrès, Valeria Musso, Andrea Aliverti, Letizia Marlocchi, Rosarina Carinolà, Valeria Rossetti, Mario Nosostiti

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 Tanimura, Toyofumi Yoshikawa, Hiroshi Date, Shuichi Matsuda

6MWT as useful predictor for long term survival after lung transplantation in patients with I LD
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 T ransplant patients
Myriam Aguilar Perez (Las Rozas (Madrid), Spain), Marta Erro Iribarren, Alfonso Ortega López, Sandra Tejado Bravo, Rosalía Laporta Hernandez, María 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

Pre-congress content
Session 141 00:00 - 23:59
E-poster session: Non-invasive ventilation and nasal high flow: technical aspects and predictive scores

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

The Effectiveness of Disinfecting Wipes on the M echanical V entilator Surfaces: A Pilot Study
Sa-Bi Lin (New Taipei City, Taiwan), Chen-En Chiang, Yu-Wen Lin, Wei-Lun Liu, Chia-Hei Su, Ke-Yun Chao

Usefulness of non-invasive ventilation delivered by helmet versus oronasal mask among patients at high risk of post- extubation respiratory failure
Mihwa Park (Incheon, Republic of Korea), Jung Soo Kim, Minjeong Kim, Ah Jin Kim, Man-Jong Lee

Is the level of expiratory positive airway pressure (EPAP) needed for tracheal stenting correlated to improvement in exercise capacity in patients with tracheobronchomalacia (TBM) ?
Léa Razakamanantsoa (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Bachar Chahine, Laurene Goumont, Camille Germain, Julien Maris, Jorys Achard, Tristan Bonnevie, Francis-Eduard Gravier, Antoine Cuvelier, Maxime Patout

Effect of different connections on aerosol delivery during non-invasive mechanical ventilation.
Haitham Saeed (fayoum, Egypt), Antonio M. Esquinas, Bruno Gil Gonçalves, Mohamed E.A. Abdelrahim

A bench test of non-invasive ventilation (NIV) interfaces
Christian Caillard (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Lea Razakamanantsoa, Antoine Cuvelier, Maxime Patout

Development of a bench test for noninvasive ventilation (NIV) interfaces
Christian Caillard (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Lea Razakamanantsoa, Antoine Cuvelier, Maxime Patout

Reliability of two flow-based algorithms of detection of expiratory flow limitation (EFL) in patients with chronic non invasive ventilation.
Manuel Luján Torne (Sabadell (Barcelona), Spain), Cristina Lalmolda Puyol, Marta Corral, Ana Hernández Voth, Javier Sayas
EPAP variability during EFL Treament in Patients using a Non-Invasive Ventilator
Mike Kissel (Monroeville, United States of America), Chuck Cain, Jim Mckenzie, Bill Hardy, Parul Nisha, Sidney Cannon-Bailey

Evaluation of EFL Incidence and Impacts of Novel NIV Home Therapy
Josh Stachel (Monroeville, United States of America), Chuck Cain, Bill Hardy, Michael Kissel, Parul Nisha, Jim Mckenzie, Sidney Cannon-Bailey

Effect of Average Volume-Assured Pressure Support Treatment on Quality of Life in COPD patients with hypercapnic respiratory failure
Doaa Magdy (Assiut, Egypt), Ahmed Metwally

Comparison of positive airway pressure efficacy in obese hypercapnic overlap syndrome.
Yizhong Zheng (Sydney (NSW), Australia), Brendon Yee, Keith Wong, Amanda Piper

Gastrostomy outcome in patients with Progressive Respiratory Failure (PRF) secondary to Neuromuscular Disorders (NMD)
Akshay Dwarakanath (Wakefield (West Yorkshire), United Kingdom), Sanjay Bangad, Joseph Hogg, Husham Elfaki, Mohammed Khan, Anjali Gondker, Muthu Thirumaran, Salim Meghjee, Anthony Johnson

Overweight Motor Neurone Disease Patients with Bulbar Dysfunction: High Risk Gastrostomy Tube Insertion
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 Katsikas

The utility of HACOR score in predicting failure of High-flow nasal oxygen (HFNO) in acute hypoxemic respiratory failure.
Ahmed Metwaly (Assiut, Egypt), Doaa Magdy

HACOR in Action: Noninvasive Ventilation Failure in Acute Respiratory Failure
Oki Ishikawa (New York, United States of America), Matthew Ballenberger, Brian Birnbaum, Bushra Mina, Antonio Esquinas, Bruno Gil Goncalves, Alejandro Ubeda, Irene Fernandez Burgos, Giuseppe Fiorentino, Maurizia Lanza, Suha Bozbay, Yalim Dikmen, Jun Duan

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 Shrikshnama, 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 Kerfourn, 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 (AHHRF): the usefulness of the standardised PaO2/FiO2 ratio (P/F-st).
Giacomo Ghinassi (, Italy), Antonietta Bandima, Uberto Maccari, Giuseppina Ciarleglio, Chiara Madioni, Valentina Granese, Laura Salerno, Maria Lucia Valentini, Elena Torricelli, Pietro Pirina, Raffaele Scalla

Pre-congress content

Session 142 00:00 - 23:59
E-poster session: Effects of environmental exposures on lung pathology

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

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

Chairs: Tania Maes (Ghent, Belgium), Mayhar Aghapour (Magdeburg, Germany)

PA1967 Electronic cigarette liquids induce formation of tunnelling nanotubes in BEAS2B cells
Aleksandra Divac Rankov (Beograd, Republic of Serbia), Sara Trifunovic, Mila Ljujic

PA1968 Impact of particulate material (PM) exposure on lung macrophage phenotype and phagocytic activity.
Stephan Van Eeden (Vancouver (BC), Canada), Kei Yamasaki, Beth Whalen

PA1969 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, Babro Melgert

Cytotoxic effect of vehicular PM metals Fe3+ & Zn2+ on lung epithelia

Carly Woods (Paisley, United Kingdom), Gary Litherland, Andrew Hursthouse, Fionnuala Lundy, Gerard Sergeant, John Lockhart, Iain Mclellan

Cigarette Smoke upregulates Notch1 signaling pathway in lung adenocarcinoma

Giuseppina Chiaparra (Palermo (PA), Italy), Claudia Sangiorgi, Caterina Di Sano, Claudia D'Anna, Serena Di Vincenzo, Giovanni Zito, Chiara Cipollina, Alessandro Bertani, Patrizio Vitulo, Elisabetta Pace

Increased STIM1 expression induced by cigarette smoke extracts regulates the proliferation and production of inflammatory cytokines in human airway smooth muscle cells

Jun Chen (, China), Zhicheng 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, Ruaraidh 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-Cavaliere (Rio de Janeiro, Brazil), Isabella Cattani-Cavaliere, Hocke A. Baarsma, Asmaa Oun, Melissa Van Der Veen, Analia Dolga, Samuel Dos Santos Valença, Martina Schmidt

LSC - 2020 - Diesel Exhaust Particles-induced Dysfunctional Responses in Lung Epithelial 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 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, Natalie De Oliveira, Elen Azevedo, Paulo Cesar Nunes, Neusa Alcantara-Neves, Ilka Biondi

The effects of organic compounds of PM2.5 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, Jongbheo 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

LSC - 2020 - Cigarette smoke exposure disrupts the molecular regulation of mitochondrial metabolism in human bronchial and alveolar epithelial cells

Christy B.M. Tulen (Maastricht, Netherlands)

Pre-congress content Session 143 00:00 - 23:59

E-poster session: Air pollution considerations

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

Method(s): Public health Epidemiology Pulmonary function testing General respiratory patient care Cell and molecular biology
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA1986</td>
<td>Acute cardiopulmonary responses to air pollution exposure during short controlled physical exercise in healthy males.</td>
<td>Krzysztof Kocot (Siewierz, Poland), Jan E. Zejda</td>
</tr>
<tr>
<td>PA1987</td>
<td>Gene expression profiles of adult-onset asthma and idiopathic environmental intolerance related to damp and mouldy buildings</td>
<td>Hille Suojailehto (Helsinki, Finland), Joseph Ndika, Irmeli Lindström, Liisa Airaksinen, Kirsi Karvala, Piia Karisola, Harri Alenius</td>
</tr>
<tr>
<td>PA1989</td>
<td>Impact of air pollutant of polycyclic aromatic hydrocarbons (PAHs) on the yearly decline of pulmonary in patients with asthma</td>
<td>Chun-Hua Wang (Taipei, Taiwan), Yu-Chen Huang, Chon-Lin Lee, Kian Fan Chung</td>
</tr>
<tr>
<td>PA1990</td>
<td>IgG, IgG1, and IgG4 sensitization to microbial extracellular vesicles in indoor dust ultrafine particles in Asthma, COPD and Lung cancer</td>
<td>Goohyeon Hong (Cheonan, Republic of Korea), Jinho Yang, Youn-Seup Kim, Hochan Seo, Sungwon Kim, Andrew Mcdowell, Won Hee Lee, You-Young Kim, Yoon-Keun Kim</td>
</tr>
<tr>
<td>PA1991</td>
<td>Early-life home environment related to incidence and remission of wheeze and rhinitis</td>
<td>Dan Norback (Uppsala, Sweden), Xin Zhang, Tian Li, Zefei Zhang, Liu Yang, Xingyi Chen, Zhaohua Zeng, Zhaohan Zhao</td>
</tr>
<tr>
<td>PA1992</td>
<td>Visible moulds, smoking, rhinitis and asthma in adults: the EGEA study</td>
<td>Laurent Orsi (Villejuif Cedex, France), Laurent Orsi, Jean Bousquet, Bénédicte Jacquemin, Valérie Siroux, Maritta S. Jaakkola, Jouni J.K. Jaakkola, Bénédicte Leynaert*, Rachel Nadif*</td>
</tr>
<tr>
<td>PA1993</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>
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<td>PA1994</td>
<td>A rapid test for environmental detection of pigeon antigen</td>
<td>Silvia Sánchez-Diez (Barcelona, Spain), Maria Jesús Cruz, Daniel Álvarez-Simon, Tomás Montalvo, Xavier Muñoz, Susana Gómez-Ollés</td>
</tr>
<tr>
<td>PA1995</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, Sharmistema 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 Bourbon</td>
</tr>
<tr>
<td>PA1996</td>
<td>Influence of air pollution on hospital admissions in patients with COPD or asthma exacerbation.</td>
<td>Ana Cerezo Hernández (Valladolid, Spain), Daniel Alvarez González, Raúl López Izquierdo, Fernando Moreno Torrero, Ana Gómez García, Milko Daniel Terranova Ríos, Carolina Andrea Urbina Carrera, Lucia Arroyo, Tomás Ruiz Albi, Andrea Crespo Sedano, Félix Del Campo Matías</td>
</tr>
<tr>
<td>PA1997</td>
<td>Use of biomass cooking fuel and risk of respiratory symptoms and Acute Respiratory Infections in Ugandan children aged under 5 years: cross-sectional analysis</td>
<td>Katherine Woolley (Birmingham, United Kingdom), Vanessa Bagambe, Ajit Singh, William Avis, Shelton Mariga, Bruce Kirenga, Francis. D Pope, G. Neil Thomas, Suzanne Bartington</td>
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<tr>
<td>PA1998</td>
<td>Does parental or grandparental farm upbringing influence risk of asthma in offspring?</td>
<td>Vivi Schlinssen (Aarhus C, Denmark), Signe Timm, Cecilie Svanes, Morten Frydenberg, Torben Sigsgaard, Mathias Holm, Christi Jansson, Lennart Bråbäck, Brittany Campbell, Marie Kjer Madsen, Oskar Jogi, Rain Jogi, Linus Schiöler, Randi Jacobsen Bertelsen, Ane Johansen, Jose Sanchez-Ramos, Jesus Martinez-Moretalla, Julia Dratva, Shyamali Dharmage</td>
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<tr>
<td>PA1999</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, Denitza Blagev</td>
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<tr>
<td>PA2000</td>
<td>Intrauterine and postnatal exposure to outdoor NO2 and lung function at school age</td>
<td>Ioar Rivas (Barcelona, Spain), Mónica Guexens, Carmen Itígieué, Lucia Alonso, Marisa Estarlich, Mikkel Basterreecha, Alicia Abellan, Judith García-Aymeric, Carlos Zabaleta, Amparo Ferrero, Xavi Basagaña, Martine Vrijheid, Jordi Sunyer, Maribel Casas</td>
</tr>
<tr>
<td>PA2001</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>
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Pre-congress content

**Session 144**

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)

**PA2003**
Late Breaking Abstract - Aggravated pathology in MRSA pneumonia secondary to Influenza A virus infection diverged from decreased expression of IL-1β
Yunfeng Shi (China), Xiaohan Shi, Junhui Ba, Jingjing Liang, Jinmei Luo, Jianning Chen, Benquan Wu

**PA2004**
Late Breaking Abstract - “Home-made” CPAP system during COVID-19 pandemic. Is it helpful?
Pablo Florez Solarana (Madrid, Spain), Aylaf Latif Essa, Miguel Alonso Villares, Juan Arévalo Serrano, Olga Navarrete Isidoro, Lara Bravo Quiroga

**PA2005**
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.
Ricard Mellado Artigas (Barcelona, Spain), Bruno Ferreyro, Alfredo Gea, Jordi Mercadal, Gerard Angeles, María Hernández-Sanz, Carlos Ferrando

**PA2006**
Impact of early bronchoscopy in patients after out-of-hospital cardiac arrest
Jana Palm (Waldkraburg, Germany), Anna Lena Lähmann, Anna Berkefeld, Friedhelm Peltz, Rainer Okrojek, Florian Weis, Arne Müller, Alexander Steger, Johannes Von Burstin, Hubert Hautmann, Gregor S. Zimmermann

**PA2007**
Driving pressure variation in mechanical ventilation: Is it associated with ventilator associate events?
Huqing Ge (Hangzhou (Zhejiang), China), Qing Pan, Ling Lin, Zhongheng Zhang

**PA2008**
Diagnostic accuracy of drop-peroxide test to differentiate transudative and exudative pleural effusion
KOTTI PHANINDRA VASU (VISAKHAPATNAM, India), K V Vijaya Kumar, Gurram Rajyalakshmi, Chinthu L. N. Yamini Priyanka

**PA2009**
The syndrome of respiratory failure in acute stroke patients.
Tatiana Kim (Moscow, Russian Federation), Alexander Chuchalin, Eugeni Gusev, Michail Martynov, Ludmila Shogonova, Alexander Panin

**PA2010**
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

**PA2011**
Impact of critical illness on inspiratory and expiratory 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

**PA2012**
SOFA (Sequential Organ Failure Assessment) Score As A Predictor Of Moartality In Ventilated Patients With Multi-drug Resistant Bacteremia
Min Ki Lee (Busan, Republic of Korea), Kwangha Lee

**PA2013**
Nutrition practices in the medical intensive care unit in a tertiary hospital: an observational cohort study.
Mithi Kalayaan Zamora (Quezon City, Philippines), Jhubert Benedicto, Vladimir Roque

**PA2014**
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

**PA2015**
Perception, experience and knowledge of early rehabilitation in Italian intensive care units: a survey
Simone Salvitti (Segni, Italy), Giulia Montigiani, Davide Papi

**PA2016**
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 adult patients in long-term mechanical ventilation: a rapid evidence synthesis
Silvania 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 Toddwyala (Princeton, United States of America), 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, Xuemin Yang, Liqiang Song

Pre-congress content Session 145 00:00 - 23:59

E-poster session: Clinical challenges in pneumonia

PA2021 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, Cristiene Zigiotto, Susi Carmona, Rodrigo Lippert

PA2022 PES Pathogens in Elderly Patients with Acquired Pneumonia in the Community
Catia Cilloniz Campos (Barcelona, Spain), Cristina Dominenedo, Diego Tovar, Jose Becerril, Albert Gabarrus, Antoni Torres

PA2023 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

PA2024 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

PA2025 Ventilator associated pneumonia in surgical and medical icus in urban tertiary care centre hospital.
Theres Mathew (Kasaragod, Kerala, India), Bajajanti Mishra, Bipin Mathew

PA2026 Inappropriate E ndotracheal T ube (ETT) cuff pressure and its relation to ventilator-associated pneumonia (VAP) in Intensive care unit (ICU).
Abdullah Al Qahtani (Nottingham, United Kingdom)

PA2027 Growing importance of Gram-negative isolates in respiratory samples
Lucia Mendez Gonzalez (Santa Maria da Feira, Portugal), Adriana Pedrosa, Cátia Caneiras

PA2028 Bacteriological and clinical correlates of culture-positive parapneumonic community-acquired pleural infection
Ioannis Kalomenidis (Athens, Greece), Marianthi Iliopoulos, Vasileios Skouras, Zoi Psaroudaki, Magda Makarona, Evangelos Vogiatzakis, Elena Tsonelli, Eleni Kasifia, Dionisios Spyros, Dimitra Soti, Ourania Kotsiou, Stelios Xitsas, Efthimios Tsiknekis, Maria Matsoukou, Xanthi Tsiatouli, Vassiliki Filaditaki, Ioanna Sigala

PA2029 Characteristics of patients with serotype 5 pneumococcal pneumonia
Hannah Lawrence (Nottingham (Nottinghamshire), United Kingdom), Vadsala Baskaran, Harry Pick, Priya Daniel, Chamira Rodrigo, Deborah Ashton, Rochelle Edwards-Pritchard, Carmen Sheppard, David Litt, Norman Fry, Samuel Rose, Tricia Mckeever, Wei Shen Lim

PA2030 Comparative analysis of pneumonia in patients with drug dependence with HIV infection and without HIV.
Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Alexandra Balitskaya, Alexander Zharkov

PA2031 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
CIRP might determine the presences of IDSA/ATS major/minor criteria and predicted best
Qi Guo, Wei-Dong Song, Hai-Yan Li, Ming Li, Xiao-Ke Chen, Hui Liu, Hong-Lin Peng, Hai-Qiong Yu, Nian Liu, Zhong-Dong Liu, Li-Hua Liang, Qing-Zhou Zhao, Mei Jiang

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

Pneumonia impact on the flow and the outcome at patients with seasonal influenza
Marija Cvetanovska (Skopje, North Macedonia), Zvonko Milenkovik, Krsto Grozdanovski, Ilir Demiri, Katerina Spasovska, Vlatko Cvetanovski

Community-acquired pneumonia associated with COPD: a special entity?
Alia Ezzououia (Tunis, Tunisia), Chrine Moussa, Houda Rousi, Amal Channoufi, Wajih Ghribi, Nada Akrimi, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Habib Ghedira

Follow-up of community acquired pneumonia with chest imaging - is it relevant?
Marta Sousa De Sá Marques (Vila Nova de Gaia, Portugal), Ana Fonseca, Eloísa Silva, Teresa Shiang, Manuela Vanzeller, Ana Oliveira, Carla Ribeiro

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

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

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 Minnion, Helen Moyses, Martin Feelisch, Sandy Jack, Karl J Staples, Mike Grocott, Tom M A Wilkinson

Inhibition of VEGF and MMP-9 production by Pregabalin in human immunocompetent cells in vitro
Fatemeh Hajighasemi (Tehran, Islamic Republic of Iran), Leila Darouni

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

Disturbance in bacterial community composition affects inflammatory ambiance and structural changes in non-Th2 asthma.
Anna Konishcheva (Moscow, Russian Federation), Valentina Gervazieva, Tatyana Ospelnikova

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

IL 13, IL 31 and IL 33 gene polymorphisms in moderate-to-severe asthma in Siberian children
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Marina Smolnikova, Sergey Tereshchenko

Bone marrow derived dendritic cell (BMDC) adoptive transfer alleviate OVA-induced allergic airway inflammation in asthmatic mice
Zhihong Chen (Shanghai, China), Nan Xu, Nan Wu, Zhihui Min, Zhilong Jiang

Mepolizumab decreases urinary excretion of LTE4 in severe asthma
Valentyna Yasinska (Rönninge, Sweden), Johan Kolmert, Javier Zurita, Alessandro Quaranta, Apostolos Bossios, Nikolaos Lazarinis, Barbro Dahlén, Craig E. Wheelock, Sven-Erik Dahlén, . (on Behalf Of The Biocross Study Group)
PA2047 Salvia plebeia R. Br. 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

PA2048 Inhibition of Mast Cell Degranulation by Surfactant Protein D
Mohammad Leily (Southampton, United Kingdom), Patrick Trimby-Smith, Rose-Marie Mackay, Laurie Lau, Andrew Walls

PA2049 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 Gerhardsson, Barbro Dahlen, Apostolos Bossios

PA2050 Allergen activates eosinophils of atopic bronchial asthma patients via IgE-mediated mechanism.
Rustem Fassakhov (Kazan (Republic of Tatarstan), Russian Federation), Sergei Boichuk

PA2051 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 Dytvyatkovska

PA2052 Roles of sensitization to Staphylococcal enterotoxin in patients with bronchiectasis
Chie Morimoto (Kyoto, Japan), Hisako Matsumoto, Tsuyoshi Oguma, Susumu Sato, Isao Itô, Mariko Kogo, Natsuko Nomura, Noriyuki Tashima, Hironobu Sunadome, Toyohiro Hirai

PA2053 Development and characterisation of a multi-species COPD biofilm
Bryn Short (Glasgow, United Kingdom), Craig Williams, Gary Litherland, Fionnuala Lundy, William Mackay, Gordon Ramage

PA2054 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, Kenseki Fukumitsu, Yoshihiro Kanemitsu, Eiji Kubota, Takeshi Kamiya, Masaya Takemura, Akio Niimi

PA2055 Completed autophagy protected airway epithelial barrier from antigens stimulation
Zicong Zhou (Guangzhou, China), Changhui Yu, Shaoxi Cai

PA2056 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), Aurélia Aparecida De Brito Léia, Tawany Gonçalves Santos, Karine Zanela Herculano, Stephanie Soares, Renata Kelly Da Palma, Ana Paula Ligeiro-Oliveira

PA2057 Immunodeficiency associated bronchiectasis in the European Bronchiectasis Registry (EMBARC)
Philip Mitchelmore (Exeter (Devon), United Kingdom), Eva Polverino, Jessica Rademacher, Charles Haworth, Anthony De Souza, Michal Sheinberg, Amelia Sheoemark, 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 Ringhausen, Javier De Gracia, Isabelle Meys, Montserrat Vendrell

PA2058 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 (Chisinau, Republic of Moldova), Radostina Cherneva (Sofia, Bulgaria)

PA2059 Eosinophilic asthma phenotypes in the UK population
Marjan Kerkhoff (Norfolk, United Kingdom), Trung Tran, James Zangrilli, Victoria Carter, David Price

PA2060 Evaluation of Serum Chitotriosidase Activity and C - reactive protein and Albumin Ratio in Cystic Fibrosis and Bronchopulmonary Dysplasia
Fatma Nazan Çobanoglu (Ankara, Turkey), Elif Kelestemur, Ozlem Ceylan Dogan, Tuba Eminoglu

PA2061 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, Morrina Allen, Alan 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 Carins, 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 Bastarrika, 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 Bräbäck, Mathias Holm, Nils Oskar Jogi, Ane Johannessen, Andre Malinovschi, Antonio Pereira-Vega, Vivi Schlünsen, Shyamali Dharmage, Francisco Gómez-Real, Cecilie 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

**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 Brussel

**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 Lucas

**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 Plana, Jaume Aguado, Nuria Saigi, Sami Z Daoud, Alejandra Lei, Susana Perez-Guthmann, Tania Schink, Nina S Kristiansen, Anton Pottegard, Elena Rivero-Ferrer

**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 Schlünsen, William Horsnell, Cecile Svanes

**Secondary pulmonary mycoses etiology agent species diversity in patients with tuberculosis and in patients with HIV infection**

Alexandra Gracheva (Moscow, Russian Federation), Anna Panova, Anatoliy Vinokurov, Galina Pay, Olga Lovacheva, Grigory Kaminskij, Irina Vasilyeva

**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

**Presence of serum antibodies anti-benzo(a)pyrene diol epoxide (BPDE-DNA) and tobacco smoking as predictors of respiratory outcomes**

Francesco Pistelli (Pisa (PI), Italy), Sara Maio, Sandra Baldacci, Laura Carrozzii, Giovanni Viegi

**Associations between oscillometry parameters and respiratory outcomes in young children: the SEPA GES cohort**

Valerie Siroux (La Tronche, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoann Gioria, Rémy Slama, Isabelle Pin, Sam Bayat
## E-poster session: Imaging-based phenotyping in pulmonary disease

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### Late Breaking Abstract - Chest radiography: a predictor of prognosis in COVID-19
Baranitharan Manoharan (Basildon, United Kingdom), Muhammad Shafiq, Ujaas Dawar, Alguili Elsheikh, Marcus Pittman

### Randomized Phase III Trial Assessing Regional Lung Function for Thoracic Resection by Hyperpolarized 129Xenon Gas MRI
Yun Shim (Charlottesville, United States of America), Jaime Mata, Matthew Hartwig, Alejandro Aragaki-Nakahodo, Ken West, Kiarash Emami, Neil Wadehra, Zackary Cleveland, Laura Walkup, Jason Woods, Alex Dusek, John Mugler, Bastiaan Driehuys

### Ventilation-perfusion measures based on functional respiratory imaging (FRI) do correlate with exercise tolerance and PRO’s in COPD
Maarten Lanclus (Vremde, Belgium), Irvin Kendall, Wilfried De Backer, Jan De Backer

### Machine Learning for Predicting Health Care Utilization in COPD using Quantitative CT Imaging
Amir Moslemi (Toronto, Canada), Wan C. Tan, Jean Bourbeau, James C. Hogg, Harvey Coxson, Miranda Kirby

### Detection of fibrotic interstitial lung disease by bronchoscopic probe based Confocal Laser Endomicroscopy (pCLE)
Edith Silberman (München, Germany), Julian Dinkel, David Bondesson, Elvira Stacher-Priehse, Jürgen Behr, Wolfgang Gieserich, Frank Reichenberger

### Functional Respiratory Imaging (FRI) shows significant regional ventilation defects in COPD patients as compared to healthy data
Maarten Lanclus (Vremde, Belgium), Stijn Bonte, Cedric Van Holsbeke, Jan De Backer

### The inspiratory and expiratory CT based COPD phenotypes using cluster analysis
Yumiko Matsumo (Otsu, Japan), Emiko Ogawa, Akio Yamazaki, Satoru Kawashima, Yasuki Uchida, Hiroaki Nakagawa, Daisuke Kinose, Masafumi Yamaguchi, Yasutaka Nakano

### X-ray Darkfield Chest Radiography: Correlation of First Results from COPD-Patients with Lung Function Tests
Gregor S. Zimmermann (München, Germany), Alexander A. Fingerle, Konstantin Willer, Wolfgang Noichl, Rafael Schick, Theresa Urban, Manuela Frank, Andreas P. Sauter, Bernhard Haller, Thomas Koehler, Jens Von Berg, Klaus Jürgen Engel, Daniela Pfeiffer, Julia Herzen, Ernst Rummeny, Franz Pfeiffer

### Effect of Lung Inflation State on Ventilation Defect Percent measured using Hyperpolarized 129Xe MRI
Wallace Wee (Toronto, Canada), Brandon Zanette, Marcus Couch, Elaine Stirrat, Yonni Friedlander, Daniel Li, Samal Munidasa, Sharon Dell, Felix Ratjen, Giles Santyr

### Development of Cone Beam CT navigation method for segmental resection in patients with early lung cancer.
Masaki Kashihara (Kurume, Japan), Masahiro Mitsuoka, Tatsuya Nishi, Toshihiro Hashiguchi, Shinzo Takamori, Yoshito Akagi

### Cardiac MRI for Prognosis in Pulmonary Arterial Hypertension: A Systematic Review and Meta-Analysis
Samer Alabed (Sheffield, United Kingdom), Faisal Alandejani, Yousef Shahin, Jim Wild, David Kiely, Andy Swift

### Benchmarking inhaled nanoparticle measurements of airspace dimension with hyperpolarised 129Xe diffusion-weighted MRI
Ho-Fung Chan (Sheffield, United Kingdom), Ho-Fung Chan, Madeleine Petersson Sjögren, Paul Hughes, Oliver Rodgers, Guilhem Collier, Graham Norquay, Lars Olsson, Per Wollmer, Jim Wild, Jakob Lundahl

### Reproducibility of 3He-MRI acquisition assessed by a deep learning approach: ventilation defects in the VaPE-Tox pilot study
Grant Hiura (New York, United States of America), Xuzhe Zhang, Yanping Sun, Martin Prince, Steve Dashnaw, Jim Wild, Emily Hughes, Wei Shen, Elizabeth Oelsner
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, Romania)

PA2097 Validation of names-bg score in screening of patients with obstructive sleep apnea
Heba Gharrar (Alexandria, Egypt), Ayman Baess

PA2098 Comparison between Level 3 Sleep Study and Peripheral Arterial Tonometry for Sleep Apnea (SA) diagnosis
Frédéric Matias de Oliveira (Póvoa de Varzim, Portugal), Analine Moura, Carla Vieira, Elsa Miranda, Pedro Martins, Margarida Dias, Nuno Cortesão

PA2099 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

PA2100 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

PA2101 The expression of sleep apnea severity and central related sleep apnea in ECG-based cardiopulmonary coupling
Zhiling Zhao (Beijing, China), Xiheng Guo

PA2102 Variability of OSA severity classification between two multiple-night sleep studies
Charlotte Wigston (Oxford, United Kingdom), John Stradling, Chris Turnbull

PA2103 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

PA2104 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

PA2105 Predictive ability of NOSAS score and STOPBANG score in identifying Obstructive Sleep Apnea
Vulli Venkatesh (Vizianagaram, India), Akula Anusha, Jana Kundan Raja

PA2106 Knowledge of sleep disorders among physicians at a tertiary care hospital in Qatar
Irfan Ul Haq (Doha, Qatar), Mansoor Ali Hameed, Abbas Abdallah Alabbas, Shakeel Ahmed, Khezar Shahezada Syed, Merlin Marry Thomas, Mubarak Ahmed

PA2107 Knowledge and attitude of obstructive sleep apnoea among junior doctors
Suman Banerjee (Bankura, India), Susmita Kundu, Ritvick Basu

PA2108 Screening for obstructive sleep apnea (OSA) in acromegaly
Cinzia Arena (Catania, Italy), Martina Tubiolo, Valentina Guarnotta, Carla Giordano, Maria Rosaria Bonsignore

PA2109 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

PA2110 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 Braghiroli (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 Ertl, Sebastian Ott

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), Chair to be confirmed

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

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

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, Filmmio Mormile

NREM sleep stages are associated with A842 and Tau in Obstructive Sleep Apnea.
Yi-Shin Liu (Taipei, Taiwan), Wen-Tc Liu, Shang-Yang Lin, Shu-Chuan Ho

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

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 Elaa, Ben Romdhane Raja, Ben Rhouma Chaima, Bouchakn Iskander, Knani Jalel, Boussofifara Leila

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

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

Study of Leptin and Ghrelin Serum Levels in Patients with Obstructive Sleep Apnea
Heba Gharraf (Alexandria, Egypt), Mostafa Shahin, Abeer Alhadidy

What anthropological and behavioural factors are influencing the tracheal diameter?
Laura Ciobanu (Iasi (Iasi), Romania), Vasile Maciuc, Andreea Obreja
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

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

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

Respiratory rate and tidal volume change with posture and activity during daily activity
Alessandra Angelucci (Milano, Italy), David Kuller, Andrea Aliverti

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 Ibáñez, Anabelia Arce, Carlos Alberto Nigro

Clinical usefulness of End-Tidal CO2 measured by a novel portable capnograph in patients with respiratory disease
Manabu Suzuki (Tokyo, Japan), Shota Fujimoto, Yuiko Horikawa, Yuiko Ueki, Hiroshi Takumida, Hirokazu Arai, Hiromu Watanabe, Yusaku Kusaba, Takashi Katsuos, Shuichiro Matsumoto, Tamaki Kakuwa, Yoshie Tsujimoto, Keita Sakamoto, Masao Hashimoto, Satoru Ishii, Junko Terada, Jin Takasaki, Go Naka, Motoyaasu Ikura, Shinya Izumi, Yuichiro Takeda, Masayuki Koojo, Haruhito Sugiyama

Assessing the accuracy of transcutaneous capnography in adults
Gergely H. Fodor (Szeged, Hungary), Almos Schranc, Szilard Szucs, Ferenc Petak, Barna Babik

Nocturnal transcutaneous capnography in obesity hypoventilation syndrome: a correlation and agreement study
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), José Rafael Terán Tinédo, Daniel López-Padilla, Christian Castro Riera, Elena Ojeda Castillejo, Soledad López Martín, Francisco José Caballero Segura, Luis Puente Maestu

Pre-congress content
Session 151 00:00 - 23:59

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)

How effective is Adaptive Servo Ventilation?
Elliott Dewsbury (Coventry (West Midlands), United Kingdom), James Shipley, Milind Sovani, Arun Khanna

Air trapping by excessive work of overnight breathing in OSA
Kenji Yazaki (Yuri-Honjo, Japan), Naoko Kamada

EFFECT OF ADENOTONSILLECTOMY ON OXIDATIVE DNA DAMAGE LEVELS IN CHILDREN WITH OBSTRUCTIVE SLEEP APNEA
Vural Fidan ( Eskisehir , Turkey), Handan Koyuncu, Hakan Alp

Starting CPAP therapy with empirical pressure: predictors of titrating pressure using Auto-C PAP
Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Amaya Urrutia Gajete, Elena Garay Llortre, Joseba Andia Iturrate, Leyre Serrano Fernandez, Marta Garcia Moyano, Beatriz Gonzalez Quero, Valentin Cabrera Nuño

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

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

The effect of CPAP withdrawal on urinary androgen metabolites
Christopher Turnbull (Oxford (Oxfordshire), United Kingdom), Jonathan Hazlehurst, Jeremy Tomlinson, John Stradling
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, Johnny Vargas Rodriguez, Sara Fernandez Garcia, Laura Souto Sayar, Alberto Fernandez Villar

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 Sanduzzi Zamparelli, Vito D’Agnano, Fabio Perrotta

Satisfaction among sleep apnea patients: telematic compared with conventional follow-up
Cristina Matesanz Lopez (Madrid, Spain), Sara Calero Pardo, Israel John Thuissvard Vasallo, David Garcia Gomez, Araceli Abad Fernandez

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

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, Chrsi Hatzoglou, Maria Kechagia, Vasileios Stavrou, Eudoxia Gogou, Charalampos Varsamas, Nicholas-Tiberio Economou, George Seitanidis, Konstantinos Gourgoulis

Kalinx® in the treatment of Obstructive Sleep Apnea-Hypopnea syndrome (OSAHS).
Soha Esmaili (Spain), Gianna Vargas Centanaro, Juan Luis Rodriguez Hermosa, Jose Luis Alvarez-Sala, Nada Raissouni, Myriam Calle Rubio

Effect of CPAP adherence on depression in OSA patient
Diana-Raluca Velescu (Timisoara (Timis), Romania), Monica Marc, Daniel Traiă, Cristian Oancea

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 Dingemansne

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 (IZMIR, Turkey), Sezai Tasbakan, Ozan Kacmaz Basoglu

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, Juri 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 Descalço, 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 Acentuates 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 McElrea (Forestdale, 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, Sampathia Goonewardena

The value of Fraction exhaled Nitric Oxide as a predictive marker of bronchial hyperresponsiveness in adults with symptoms suggestive of asthma.
Selma de Nijs (Utrecht, Netherlands), Nienke Spelberg, Joke Hapener- Mathijssen, , Ingrid De Backer, Simone Van Der Sar

Sensitivity to Mannitol and Airway Obstruction in Patients with Asthma, COPD and Healthy smokers
Abir Nasr (Teckomatorp, Sweden), Kerstin Romberg, Linnea Jarenbäck, Leif Bjerner, Ellen Tufvesson

Clinical presentation in patients with isolated bilateral Diaphragmatic Palsy and MIP ratio as an aid to diagnosis.
Milind Sovani (Nottingham (Nottinghamshire), United Kingdom), Beatrice Downie, Syeda Nafisa, Patience Ehilawa, Ben Messer

New reference equations: What changes in diffusing capacity for carbon monoxide interpretation?
Tânia Duarte (Caparica, Portugal), Mafalda Silva, Catarina Rijo, Susana Sousa, Paula Duarte
PA2174 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 Vuymerberg, Anke-Hilse Maitland-Van Der Zee

PA2175 The challenge with cigarette smoke - the way to predict lung disease development in the future.
Immanuels Taivans (Riga, Latvia), Gunta Straazda, Normunds Jurka, Valentina Gordjujsina

PA2176 FeNO as a predictor of Asthma control in a tertiary care centre in South India>
Padmanabhan Arjun (Trivandrum (Kerala), India), Sanjeev Nair

PA2177 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

PA2178 Asthma Management Practices among Specialists and General Practitioners in and around Pune city
SAIJIN MATHEW, Shubhi Singhal

PA2179 Estimating Chronic Respiratory Disease (Asthma and COPD) burden in adults in Asian LMICs: a pilot study for 4CORD [4 Country Chronic Respiratory Disease study].
Dhiraj Agarwal (Pune (Maharashtra), India), Deesha Ghorpade, Sundeen Salvi, Nik Sherina Hanafi, Osman Yusuf, Mohsin Saeed Khan, Deepa Das, Biswajit Paul, Rita Isaac, Mohammad Shahidul Islam, Samir Saha, Su May Liew, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong Kek Pang, Karuthan Chinna, Li Ping Wong, Richard Parker, Ee Ming Khoo, Sanjay Juvekar, Hilary Pinnoek

PA2180 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, Gerda A Tramer, Gert-Jan Braunstahl

PA2181 The longitudinal evaluation of lung function and biomarkers (levante) study in medical students: Preliminary Results
Isabel Nerin De La Puerta (Zaragoza, Spain), Alejandra Ramirez-Venegas, Carlos Cabrera, David Diaz-Perez, Marta Forner, Ramsés Falfán-Valencia, Linde Reyes, Sebastian Rodriguez-Llamazares, Nuria Requeno, Jose Mart Marin, Ciro Casanova Macario, Bartolomé Celli, M Valle Velasco

PA2182 Anti-DP effects on airway bacterial load in a phase 2a trial
Sarah Diver (Melton Mowbray, United Kingdom), Vijay Mistry, Claudia Micieli, Mohammadali Ramsheh, Koorbi Haldar, Michael Barer, Christopher Brightling

PA2183 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

PA2184 Single and multiple breath washout as compared to the Metacholine test in patients with suspected asthma
Aline Stalder-Siebeneichler (Switzerland), Desiree Schumann, Michael Tamm, Daiana Stolz

PA2185 COMMON COLD INFLUENCES EXHALED VOLATILE ORGANIC COMPOUND PROFILE ANALYZED BY AN ELECTRONIC NOSE.
Silvano Dragonieri (Bari (BA), Italy), Vitaliano N Quaranta, Pierluigi Carratu, Teresa Ranieri, Giovanna Elissiana Carpagnano, Onofrio Resta

PA2186 Relationship between psychological status and asthma control
Soumaya Bouchareb (Ksar Hellal, Tunisia), Imen Toudi, Nadia Keskes, Chaima Ben Rhouma, Ella Nems, Raja Romdhane, Jalel Kmani, Leila Boussofara

PA2187 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

PA2188 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

PA2189 Oral corticosteroids in the treatment of exacerbation of severe asthma
Anahit Gevorgyan (Yerevan, Armenia)

PA2190 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 Simşek (Manisa, Turkey), Deniz Kızlırmak, Meltem Hazel Şimşek, Yavuz Havluçu

Pre-congress content
Session 154 00:00 - 23:59
E-poster session: New tools for diagnosis of obstructive diseases

Diseases: Airway diseases

Methods: General respiratory patient care, Pulmonary function testing, Epidemiology, Cell and molecular biology, Public health, Imaging

Chairs: Giovanna Elisiana Carpagnano (Bari, Italy), Peter J. Sterk (Amsterdam, Netherlands)

PA2191 Late Breaking Abstract - Genetic diagnosis of alpha-1 antitrypsin deficiency using saliva samples
Amaia Larruskain (Derio, Spain), Amaya Buxens, Mónica López, Marta Artieda

PA2192 Late Breaking Abstract - The roles of impulse oscillometry in detection of asthma control level.
Warawut Chaiwong (Chiang Mai, Thailand), Sirianong Namwongprom, Chalerm Liwsrisakun, Chaicharn Pothisarit

PA2193 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 Kranевeld, Urs Frey, René Lutter, Peter Sterk, Anke-Hilse Maitland-Van Der Zee, Anirban Sinha

PA2194 Characteristics of patients with physician-assigned COPD without airflow obstruction in NOVELTY
Alvar Agustí García-Navarro (Barcelona, Spain), Rod Hughes, Ricardo Del Olmo, Jørgen Vestbo, Barry Make, Eleni Rapsomaniki, Hana Müllerová, David Price

PA2195 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

PA2196 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

PA2197 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

PA2198 Effect of age, gender and body habitus upon exhaled breath volatiles in COPD and health
Liesl Carr (Leicester (Leicestershire), United Kingdom), Mohammad Yavari Ramsheh, Luke Bryant, Ahemd Yousef, Rebecca Cordell, Michael Wilde, Salman Siddiqui, Paul Monks, Christopher Brightling

PA2199 Factors associated with physician assessment of severity of asthma or COPD in NOVELTY
Alberto Papi (Ferrara, Italy), Helen K Reddel, Alvar Agustí, Gary P Anderson, Aruna T Bansal, Richard Beasley, Elisabeth H Bel, Christer Janson, Barry Make, Ian D Paviour, David Price, Eleni Rapsomaniki, Donna K Finch, Marianna Alacqua, Hana Müllerová, Rod Hughes

PA2200 New method of Alpha-1-antitrypsin diagnosis facilitates the detection of rare mutations
Andreas Klemmer (Marburg, Germany), Martina Veith, Julia Tüffers, Erika Peychov, Christoph Berndt, Viktor Kotke, Christian Herr, Robert Bals, Claus Franz Vogelmeier, Tinn Kühlström

PA2201 Antecedent hospitalization history of patients newly diagnosed with COPD
Florent Baty (St. Gallen, Switzerland), Michelle Hagmann, Frank Rassoul, Martin Brutsche

PA2202 Update on CADSET (Chronic Airway Disease Early Stratification) Clinical Research Collaboration
Maria Rosa Faner Canet (Barcelona, Spain), Gavin Donaldson, Elise Heuvelin, Viktoria Szabo, Robab Breyer-Kohansal, Erik Melen, Anke H. Maitland-Van Der Zee, Jørgen Vestbo, James P. Allinson, Lowie E. G. W. Vanfleteren, Maarten Van Den Berge, Ian M. A. Adcock, Lies Lahousse, Jadwiga A. Wedzicha, Alvar Agustí

PA2203 Are T2 biomarkers of any help in diagnosing asthma?
Halehsadat Nekoee Zahraei (Liege, Belgium), Florence Schleich, Emmanuel Graulich, Monique Henket, Virginie Paulus, Françoise Guissard, Anne-Françoise Donneau, Renaud Louis

PA2204 Diaphragmatic movement in COPD patients in rest and after physical activity
Evgeni Mekov (Sofia, Bulgaria), Nikolay Yanev, Nedelina Kurteleva, Adelina Tsakova, Rosen Petkov

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
Hidden morbidity of asthma in primary care: the results of a community outreach programme
Michael Crooks (York (North Yorkshire), United Kingdom), Joanne Thompson, Helena Cummings, Nicola Jackson, Karen Watkins, Shoaiq Faruqi

Comparison of individual items of COPD Assessment Test (CAT) at baseline in the EMAX and IMPACT trials
Paul Jones (London, United Kingdom), Mark Dransfield, Isabelle H. Boucot, Edward M. Kerwin, David A. Lipson, Claus F. Vogelmeier, Meilan Han, Leif Bjerner, Robert A. Wise, François Maltais, Lee Tombs, Sally Kilbride, Chris Compton, Fernando Martínez

Systematic assessment detects respiratory problems in illness-susceptible athletes
James H. Hull (London, United Kingdom), Anna Jackson, Craig Ranson, Mike Loosemore

Predicting frequent exacerbations in a severe asthma centre.
Clara Emily Green (Warwick (Warwickshire), United Kingdom), Ali Bahron, Julie Marsh, Adel Mansur

Pre-congress content
Session 155 00:00 - 23:59

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)

Differences in the response to treatment with monoclonal antibodies according to age
Ana Gomez-Larrauri (Barakaldo-Bizkaia, Spain), Borja Ortiz De Urbina, Joseba Andia, Elena Garay, Alejandro Rezola, Sandra Pedrero, Patricia Sobradillo, Elena Lopez De Santamaria, Lorea Martinez, Milagros Iriberrí, Nuria Marina

Clinical indicators of treatment response to Mepolizumab at 12 weeks
Yik Lam Pang (Nottingham, United Kingdom), Iain Stewart, Tim Harrison, Ian Sayers, Dominick Shaw

Mepolizumab in real-life treatment of severe eosinophilic asthma
Eva Volakova (Olomouc 9, Czech Republic), Jaromir Zatlukal

Real world outcomes of Mepolizumab for severe asthma in Wales: a retrospective analysis.
Andrew Harries (Cardiff, United Kingdom), Katie Pink

Mepolizumab reduces nasal symptoms in asthmatic patients with chronic rhino-sinusitis and nasal polyposis: a 12 months real-life study
Mauro Maniscalco (Napoli (NA), Italy), Aikaterini Detoraki, Maria D’Amato, Raffaella Giacco, Cecilia Calabrese, Matilde Boccia, Eugenio Tremante, Remo Poto, Giuseppe Quaremba, Giuseppe Spadaro

Evolution of patients with severe asthma treated with mepolizumab
Santi Nolasco (Catania, Italy), Crimi Claudia, Raffaele Campisi, Enrico Heffler, Giuseppe Valenti, Corrado Pelaia, Alberto Noto, Girolamo Pelaia, Nunzio Crimi

Omalizumab versus mepolizumab in severe asthma: a propensity score matched efficiency retrospective cohort study
Maria Auxiliadora Morón Ortiz (Huelva, Spain), Jessica Hilares Vera, Jesús Lancha Dominguez, Carolina Puchaez Manchón, José Luis Sánchez-Ramos, Antonio Pereira Vega

Effectiveness of biological treatment in severe asthma difficult to control (SADC)
Hirohiko Nagase (Tokyo, Japan), Jun Tamaoki, Takeo Suzuki, Yasuko Nezu, Ashley Cole, Shbing Yang, George Mu, Masayuki Katsumata, Masaki Komatsubara, Rafael Alfonso

Predictor of benralizumab for patients with severe eosinophilic asthma: a retrospective, real-life study
Takanori Numata (Tokyo, Japan), Hanae Miyagawa, Keitaro Okuda, Hirofumi Utsumi, Mitsuwo Hashimoto, Shunsuke Minagawa, Takeo Ishikawa, Hiromichi Haru, Jun Araya, Kazuyoshi Kuwano

The characteristics of treatment failure with omalizumab in patients with severe asthma: The impact of eosinophilic complication
Tomohiro Akaba, Mitsuko Kondo, Atsushi Kurokawa, Kiyoshi Takeyama, Etsuoku Tagaya

Benralizumab for severe asthma associated with extra-airway eosinophilic diseases
Mikio Toyoshima (Hamamatsu, Japan), Keigo Koda, Tsuyoshi Nozue, Takaitsu Tagaya

ABPA relapse after discontinuation of omalizumab
Caterina Buca (Torino (TO), Italy), Luisa Brussoni, Irene Ridolfi, Stefania Nicola, Giovanni Rolla
PA2224  Differential treatment response to mepolizumab in severe eosinophilic asthma with nasal polyps
Hui Fang Lim (Singapore, Singapore), Nadia Suray Tan, Yew Kwang Ong, Manali Mukherjee, Siew Shuen Chao, W.S. Daniel Tan, Mei Fong Liew, Xinni Xu, Yuansheng Melvin Sng, De Yun Wang, W.S. Fred Wong, Parameswaran Nair, Veronique Angelli

PA2225  RapidBenralizumab effectiveness in patients with severe eosinophilic asthma and bronchiectasis
Santi Nolasco (Catania, Italy), Claudia Crimi, Raffaele Campisi, Giulia Cacopardo, Rossella Intravaia, Morena Porto, Nunzio Crimi

PA2226  Long term efficacy and safety of omalizumab in patients with allergic asthma - A real life study
Andriana Papaioannou (Vrilissia (Athens), Greece), Myrto Mplizou, Konstantinos Porpodis, Evangelia Fouka, Eleftherios Zervas, Konstantinos Samitas, Miltiadis Markatos, Spyridon Papiris, Mina Gaga, Despoina Papakosta, Stelios Loukides

PA2227  Characterisation of severe eosinophilic asthma patients who failed Mepolizumab therapy
Omer Elneima (Leicester, United Kingdom), Wadah Ibrahim, Claire Boddy, Anna Murphy, Peter Bradding, Christopher Brightling, Salman Siddiqui

PA2228  Super-response to dupilumab therapy in a patient with severe asthma and ABPA - a case report
Carlo Mümmler (München, Germany), Bernd Kemmerich, Katrin Milger-Kneidinger

PA2229  Mepolizumab is effective in severe eosinophilic asthmatics: an Austrian real-life study.
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Wolfgang Pohl

PA2230  Serum Y K L-40 modulation in severe asthma patients treated with Mepolizumab
Diego Bagnasco (GENOVA (GE), Italy), Anna Maria Riccio, Laura De Ferrari, Marco Caminati, Alessandro Massolo, Gianenrico Senna, Giovanni Passalacqua

Pre-congress content

Session 156  00:00 - 23:59
E-poster session: Clinical parameters in severe asthma

PA2231  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

PA2232  Practicality and clinical utility of cardiopulmonary exercise testing to investigate complex breathlessness in severe asthma
Amanda Vigus (Birmingham, United Kingdom), Maximillian Thomas, Adel Mansur

PA2233  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

PA2234  A “gender phenotype” does really exist in severe asthma.
Sonia Rizzello, Chiara Allègrini, Lorenzo Ciambellotti, Clara De Filippis, Federico Lavorini, Gianna Camiciotto,LI

PA2235  Small airway evolution of a Brazilian severe asthmatic cohort (BRASASP): 10 years follow up
Nilton Goncalves Dos Santos Junior (São Paulo (SP), Brazil), Renato Miranda Lima, Rodrigo Abensur Athanazio, Regina Maria De Carvalho Pinto, Joao Marcos Salge, Klaus Rabe, Alberto Cukier, Rafael Stelmach

PA2236  Real prevalence of severe asthma in developing countries - Is the diagnosis correct?
Manu Chopra (Delhi, India), Vasu Vardhan, Priyanka Singh

PA2237  Association between cough frequency and T2 inflammation in severe asthma
Joshua Holmes (Belfast (Belfast), United Kingdom), Surinder Birring, Hannah Fletcher, Lorcan Mcgarvey, L.G Heaney

PA2238  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 Ierodiakonou, Vigia Stamatopoulou, Athina Trachalaki, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Thanasis Solakis, Miltos Markatos, Stelios Vittorakis, Aggeliki Kostaki, Maria Varoucha, Evangelia Stamatakis, George Pitsidianakis, Irini Lambiri, Ioanna Mitrouska, Nikolaos Tzanakis
**Pre-congress content**

**Session 157**

**151**

**24.08.2020**

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 (MEX)**

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 (SEA) 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 mepolizumab, benralizumab and oral prednisolone in patients with severe asthma
Angela Moran (Christchurch, New Zealand), Sanjay Ramakrishnan, Catherine Borg, Clare Connolly, Simon Couillard, Christine Mwasuku, Ian Pardov, 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’Ancon, 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.
Laurien Keulers (LEEUWARDEN, Netherlands), Akke-Nynke Van Der Meer, Anneke Ten Brinke

Dual biologic therapy with mepolizumab a novel solution to dupilumab-induced conjunctivitis
Brianne Philipenko (Calgary, Canada), Brandie Walker, Patrick Mitchell, Mike Ramsahai

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’Ancon, Jaideep Dhairwal, 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, Aoife Maxwell, Sandra Joksait, Robert G Price, Ronan O'Reilly, Melissa K Van Dyke, Shihing Yang, Peter Howarth

Super-responder analysis and real-world one year effectiveness of benralizumab 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’Ancon, Jaideep Dhairwal, 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

Omalizumab is an effective intervention in severe asthma with aspergillus sensitisation.
Peter Wark (New Lambton Heights (NSW), Australia), Sikander Hussaini, Carl Holdar, Heather Powell, Christopher Oldmeadow, Peter Gibson

Efficacy of Benralizumab in severe asthma in real life and focus on nasal polyposis
Diego Bagnasco (GENOVA (GE), Italy), Giovanni Passalacqua

Small airways function: evaluation in a population of adult patients with severe asthma and potential use as a response biomarker for anti-IL 5 therapy
Angelantonio Maglio (Salerno (SA), Italy), Carolina Vitale, Simona Pellegrino, Cecilia Calabrese, Roberta Parente, Massimo Triggiani, Cristina Stellato, Corrado Pelaia, Girolamo Pelaia, Alessandro Vatrella

Are serum immunoglobulins a predictive biomarker of response for anti-IL 5 therapies?
Simon LAURET (Toulouse, France), Laurent Guillemainault, Elise Noel-Savina, Gregoire Prevot, Danielle Brouquieres, Alain Didier

The real world effectiveness and effect on adherence with inhaled asthma therapy of 1 year of Severe Asthma Monoclonal Antibody Treatment
Hannah Joplin (Liverpool (Merseyside), United Kingdom), Daniella Mcleagahan, Lewis Jones, Ryan Robinson, Karl Hunter, Catherine Lowe, Victoria Flynn, Laura Root, Hassan Burhan

Effect of dupilumab on severe exacerbations in asthma patients with and without lung function improvements
Nicola Hanania (Houston, United States of America), Jorge Maspero, Reynold A. Panettieri, Mario Castro, Nadia Daizadeh, Michel Djandji, Benjamin Ortiz, Paul Rowe, Yamo Deniz
Efficacy of tezepelumab in patients with low and high bronchodilator reversibility in PATHWAY

Jonathan Corren (Los Angeles, United States of America), Mark C Liu, Karin Bowen, Kinga Sałapa, Gene Colice, Jean-Pierre Llanos-Ackert

Pre-congress content  Session 158  00:00 - 23:59  E-poster session: Asthma and cough: clinical trials and pharmacological insights

Disease(s): General respiratory patient care  Epidemiology  Respiratory intensive care  Pulmonary function testing

Method(s): General respiratory patient care  Epidemiology  Respiratory intensive care  Pulmonary function testing

Chairs: Imran Satia (Hamilton (ON), Canada), Chair to be confirmed

Blood eosinophil count as a predictor of treatment response in adult patients with chronic cough

Aleksandra Rybka-Frączek (Warszawa, Poland), Marta Dabrowska, Elzbieta M. Grabczak, Katarzyna Bialek-Gosk, Karolina Klimowicz, Olga Truba, Rafal Krenke

Design of phase 2b randomised controlled trial of S-600918, P2X3 receptor antagonist for refractory chronic cough

Hiroyuki Ishihara (Ridgewood, United States of America), Hideaki Hida, Mitsuaki Machida, Yoshiyuki Tsuda, Sayaka Miyazaki

CAPTAIN: Effects of smoking status on response to triple therapy in patients with inadequately controlled asthma on ICS/LABA

Alberto Papi (Ferrara, Italy), Laurie Lee, Huib Kerstjens, Louis-Philippe Boulet, Agne Zarankaite, Ian D. Pavadov, Guy Brusselle, Neil Barnes, Nicola A Hanania, Steven Pascoe, John Oppenheimer, Emilio Pizzichini, Andrew Fowler

High use of SABAs is associated with higher exacerbation frequency

Anna Jetske Baron (Groningen, Netherlands), Bertine M.J. Flokstra-De Blok, Huib A.M. Kerstjens, Gineke Koopmans-Klein, David B. Price, Andrea A. Sellink, Ioanna Tsiligianni, Janwillem W.H. Kocks

Tiotropium improved asthma symptoms and increased time to first exacerbation in patients with moderate-to-severe asthma.

Bashir Omarjee (Saint-Denis (La Réunion), Reunion)

Efficacy of as-needed budesonide/formoterol in mild asthma: pooled analysis of SYGMA 1 and 2

Eric D. Bateman (Cape Town, South Africa), J Mark Fitzgerald, Helen K. Reddel, Peter J. Barnes, Jinping Zheng, Rosa Lamarca, Margareta Puu, Stefan Ivanov, Himanshu Parikh, Vijay Alagappan, Paul M. O'Byrne

Characterising asthma exacerbations in the CAPTAIN trial

Laurie Lee (Research Triangle Park, United States of America), John Oppenheimer, Edward Kerwin, Huib Kerstjens, Agne Zarankaite, Guy Peachey, Neal Sule, Neil Barnes, Emilio Pizzichini, Louis-Philippe Boulet, Nicola A Hanania, Robert Nathan, Steven Pascoe, Ian D Pavadov, Andrew Fowler

Treatment patterns in English asthma patients initiating multiple inhaler triple therapy: a cohort study

Wilhelmine Meeraus (Uxbridge (Middlesex), United Kingdom), Shiyuan Zhang, Andy Fowler, Laurie Lee, George Mu, Alexandrosz Czira, Leah Sansbury

Predictors of loss of asthma control in the Phase 2a INCONTRO trial: A post-hoc analysis

Robert Palmér (Orebro, 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

PBF-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 Saladich, Montserrat Puntes Rodriguez, Rosa M. Antonijoan Arbós, 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 Peth, 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 Tine, Graziella 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 Egennazarov, 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. Andreievskaya, Leonid G. Nakhamchen, Natalia A. Ishutina

The relationship between Notch expression and T cell differentiation in COPD
Ching-Hsiung 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 Kauffmann, 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, Thrzmini Kalananthan, Rune Nielsen, Tarraneh Jouleh, Harald Wikre, Per Bakke, Nathalie Reuter, Tomas Eagan

Protease activated receptor 2 (PAR2) antagonism reduces pro-inflammatory cytokine production in bronchial epithelial cells
Mariana Baiolo (Paisley, United Kingdom), L. Dunning, J. Brzeszcynska, K. Mcintosh, R. Plevin, S. L. Martin, G P. Sergeant, C. S. Goodyear, G. S. Litherland, J. C. Lockhart, A. Crilly

FK 506-binding protein 11, a novel plasma cell specific antibody folding catalyst, is increased in idiopathic pulmonary fibrosis
Stefan Preisendörfer (München, Germany), 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, Alloys Schepers, Anne Hilgendorf, Naftali Kaminski, Hans-Peter Bächinger, Oliver Eickelberg, Claudia Staab-Weijnitz

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 Guillame, 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), Tatiana Novgorodtseva, Marina Antonyuk, Tatiana Gvozdenko
PA2297  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

PA2298  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 Ostrovskyy, Oleksandr Varunkiv, Iryna Savelikhina, Iryna Makoyda, Kseniia Ostrovskava

PA2299  Cross-talk between coagulation and inflammation in COPD. The role of Factor XIII.
Erica Bazzan (Padova (PD), Italy), Claudia Radu, Marienrica Tiné, Umberto Semenzato, Simonetta Baraldo, Graziella Turato, Paolo Simiont, Manuel Cosio, Marina Saetta

PA2300  Evaluation of mRNA expression profiling of NF-κB mediated signaling in COPD patients.
Ravi Shanker Yadav (Lucknow, India), Surya Kant, Prashant Mani Tripathi, Anuj Kumar Pandey

PA2301  Mechanisms of extracellular Hsp70 induced inflammatory effects in 16HBE cells
Andrea Hulina Tomašković (Zagreb, Croatia), Anita Somborac-Bačura, Iva Hlapčić, Marija Grdić Rajković, Lada Rumora

PA2302  Estimation of DNA repair synthesis in peripheral blood lymphocytes from asthmatic patients treated with oral corticosteroids
Andrey Lintsov (st.Petersburg, Russian Federation), Alisher Soliev, Pavel Slizhov, Sergei Shevelev, Irina Spivak, Viktor Mikhelson

PA2303  The importance of innate and adaptive immunity in the formation of various variants of the course of seasonal allergic rhinitis
L Szyjakina (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)

PA2304  Clinical application and radiological relevance 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

PA2305  Cavitary lung lesions - microbiological identification of mycobacteriosis
Ruslan Asanov (Ulyanovsk, Russian Federation), Natalya Karpina, Ekaterina Shishkina, Elena Larionova, Atatshan Ergeshov

PA2306  Characteristic of hydatid cyst in diabetic patients
Sarra Ammari (Manouba, Tunisia), Sarra Zairi, Héla Kammoun, Amira Dridi, Mehdi Abdennadher, Imene Bouassida, Taher Mestiri, Lamine Megdiche, Hazem Zribi, Adel Maraghi

PA2307  Allergic bronchopulmonary aspergillosis as aetiology of bronchiectasis: data from the German bronchiectasis registry PROGNOSIS
Isabell Pink (Hamburg, Germany), Jessica Rademacher, Pontus Mertsch, Andres De Roux, Annegret Zurawski, Grit Barten-Neiner, Tobias Welte, Roland Diel, Felix Ringshausen

PA2308  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
Jing Zhang (Shanghai (Xuhui District), China), Yi-Hui Zuo, Wei-Qing Wang, Jie-Ming Qu

PA2309  Use of Isavuconazole MIC to guide dosing in the management of Aspergillosis in patients with pulmonary disease
LISA NWANKWO (BANSTEAD, United Kingdom), Darius Armstrong-James, Anand Shah

PA2310  Performance of Siemens immulite immunoassay for detection of Aspergillus fumigatus and Aspergillus flavus specific IgG for chronic pulmonary aspergillosis diagnosis in Pakistan
Kauser Jabeen (Karachi, Pakistan), Joveria Farooqi, Nousheen Iqbal, Khalid Wahab, Muhammad Irfan

PA2311  An open label randomized controlled trial comparing nebulized amphotericin B with oral itraconazole in patients with pulmonary aspergillosis
Animesh Ray (Kolkata (West Bengal), India), Jagadeesh Manikanta, Surabhi Vyas, Sunil Kumar Kabra
Clinical characteristics of patients with pulmonary aspergillosis in a respiratory medicine service in southern Brazil
Eduardo Garcia (Porto Alegre (RS), Brazil), Felipe Westphal, Marcelo Bellon, Tales Franzini, João Dallasen

Predicting risk of mortality of chronic pulmonary aspergillosis
Keitaro Nakamoto (Tokyo, Japan), Yuka Sasaki, Tatsuya Shirai, Keiji Fujiwara, Koji Furumichi, Takeshi Osawa, Masafumi Shimoda, Kozo Morimoto, Yoshiaki Tanaka, Masao Okumura, Takashi Yoshiyama, Hideo Ogata, Atsuyuki Kurashima, Kozo Yoshimori, Ken Ohta

Comparative evaluation of biological specimens obtained from patients diagnosed with non-tuberculosis mycobacteriosis
Natalya Karpina (Moscow, Russian Federation), Irina Shabalina, Elena Larionova, Ekaterina Shishkina, Ruslan Asanov, Atadzhan Ergeshov

An expert statement on clinical considerations before treating NTM lung infection
Raphael Chiron (Montpellier Cedex 5, France), Nicolas Veziris, Claire Andrejak, Wouter Hoeftsloot, Zeina Aoun, Cristina Audoly, Damien Basille, Amira Benattia, Anne Bergeron, Jean Francois Bervar, Jean Francois Boitiaux, Arnaud Boudrin, Diane Bouvry, Jacques Cadranel, Gérard Chatté, Léa Colombain, Jean Louisoudre, Bruno Crestani, Julien Crouzet, Gaetan Deslee, Benoit Douvry, Margot Drev, Magali Dupuy Grasset, Stephanie Jouneau, Mallorie Kerjonou, Sylvie Leroy, Thomas Maître, Jean Pierre Mallet, Massongo Massongo, Marlène Muris Espin, Annabelle Payet, Pauline Pradère, Anne Prevotez, Christophe Rogé, Frédéric Schlenmer, Leila Slim, Cécile Toper, Fatma Tritar, Maria Cristina Patrizi, Vincent Boux, Francois Xavier Blane, Emile Catherinot

Launch of a novel intrapleural fibrinolytic service for empyema at a district general hospital in London
Ewan Mackay (London, United Kingdom), Sivanantham Sasikumar

Comparison of susceptibility testing results of MAC 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

In vitro susceptibility testing of bedaquiline against mycobacteria avium-intracellulare complex
Marina Makarova (Nizhnekamsk (Republic Tatarstan), Russian Federation), Yulia Mikhailova, Dmitriy Kudlay, Natalia Litvinov, Lidia Guntupova, Vitaliy Litvinov

Pulmonary nocardiosis in renal transplant patients in a tertiary care hospital in Pakistan
Muhammad Jawwad Nazmi (Karachi, Pakistan), Fakhir Haidri

Bacteriological and therapeutic features of lung abscess
Rim khemakhem (Sfax, Tunisia), Nessrine Kallel, Khouloud Abdelmouleh, Nedia Moussa, Ilhem Yangui, Samy Yangui, Sanny Kammoun

Pre-congress content Session 161 00:00 - 23:59
E-poster session: Translational science in respiratory infections

Epidemiology: 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)

Effects of PC945, 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

Establishment of Nontypeable Haemophilus influenzae airway infection murine model
Genki Kimura (Funabashi, Japan), Yuki Nishimoto, Takahiro Nakaoki, Kazuhiro Ito, Yasuo Kizawa

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

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

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

Biomorphological and related technical aspects affecting phage activity for inhaled application
Sandra-Maria Wienhold (Berlin, Germany), Markus C. Brack, Wibke Groenewald, Geraldine Nouailles, Imke Korf, Manfred Rohde, Claudius Seitz, Antonia Dannheim, Sarah Wienecke, Holger Ziehr, Christine Rohde, Martin Witzenrath
Role of reactive persulfide species in influenza virus-induced lung inflammation in mice
Katsuya Takita (Sendai - shi, Japan), Hisatoshi Sugiura, Tomohiro Ichikawa, Numakura Tadahisa, Hirano Taizou, Mitsuhiro Yamada, Takaaki Akaile, Ichinose Masakazu

In vitroex vivo activity of A vermeecin derivatives against clarithromycin resistant M ycobacterium avium.
Hanako Fukano (Higashimurayama, Tokyo, Japan), Akari Ikeda, Tomoyasu Hirose, Masato Iwatsuki, Kiyoko Akagawa, Naoki Hasegawa, Toshiaki Sunazuka, Satoshi Onuma, Yoshihiko Hoshino

Systematic evaluation of clarithromycin (CLA) resistance associated mutations in M ycobacterium 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

Phosphorothiorate 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

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

Klebsiella pneumonae triggers rapid release IL(IL)-26 in human neutrophils
Karlsht Che (Stockholm, Sweden), Anders Linden

High Intensity Interval Training control inflammation in mice exposed to Streptococcus pneumoniae.

The effects of inhaled corticosteroids and a beta-2 agonist on C. pneumoniae-infected airway epithelial cells
Dora Paroczai (Deszk, Hungary), David Kókai, Katalin Burian

Antimicrobial effect of hypertonic saline on sputum and biofilm in endotracheal tube
Hui-Ling Lin (Taoyuan, Taiwan), Ssu-Hui Wang, Chi-Shuo Chen

Protective efficacy of virus like particles (VL Ps) 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

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

Pre-congress content
Session 162
00:00 - 23:59

E-poster session: Biomarkers and characterisation of immune response in respiratory infection

Disease(s): Airway diseases, Respiratory critical care

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

Chairs: Manali Mukherjee (Hamilton (ON), Canada), Kathleen Jahn (Basel, Switzerland)

Azurocidin-1: a marker of COPD severity and microbial dysbiosis
Jennifer Pollock (Dundee, United Kingdom), Alison Dicker, Mike Lonergan, Holly R Keir, Alexandria H Smith, Megan Crichton, Jeffrey T-J Huang, Bruce E Miller, Ruth Tai-Singer, James D Chalmers

Neutrophil extracellular traps levels are associated to severity and complications in community-acquired pneumonia
Paula Gonzalez Jimenez (València, Spain), Raúl Méndez, Laura Feched, María P. Fernández-Pérez, Rocio González-Conejero, Constantino Martinez, Ana Latorre, Antonio Moscardó, Rosario Menéndez
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 Agusti, Eduard Monsó

Vitamin D as a marker of worsening of the course of pneumonia.
Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Olga Prikhodko

Composition ration and drug-sensitivity distribution of phlegmy patogenic bacteria from AECOPD inpatients
Tiangang Ma, Yanbing Hu, Qinghua Zhang

Metabolite markers identify pneumonia better in serum than sputum or broncho-alveolar lavage fluid
Qiang Xiao, Xiaobin Zheng, Xiang Liu, Liang Li, Fu Rong

Neutrophil elastase is correlated with disease severity in a cohort from Southern Europe
Andrea Gramnegna (Milano (MI), Italy), Stefano Aliberti, Tommaso Pilocane, Giovanni Sotgiu, Margherita Ori, Carlotta Di Francesco, Laura Saderi, Alice Gelmini, Leonardo Terranova, Martina Oriano, Angela Belfiore, Michele Gaffuri, Barbara Vigone, James D Chalmers, Sibila Oriol, Paola Marchisio, Francesco Blasi

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

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-Meneill, Timothy Ferguson, Kelly Moffitt

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

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 Tammin, Daiana Stolz

Evaluating Immature Platelet Fraction (IPF) in respiratory tract infections.
Vasiliki Georgakopoulou (Athens, Greece), Konstantinos Mantzouranis, Dimitrios Merrigakis, Despina Melemeini, Georgios Petsinis, Evgenia Karakou, Agathi Lekkakou, Nikolaos Trakas, Rea Chatzikyriakou, Xanthi Tsiafaki

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

Characterization of the Immune Response in Clinical Sepsis To Identify Potential Therapeutic Targets
Shahd Horie (Galway, Ireland), Jack Brady, Bairebre McNicholas, Daniel O'Toole, Matthew Griffin, John Laffey

Bronchoalveolar lavage amylase levels can be a biomarker of aspiration pneumonia.
Tomoko Suzuki (Aiduwakamatsu, Japan), Miwako Saitou, Yuka Utano, Kennichi Utano, Katsunao Niitsuma

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

Pre-congress content Session 163 00:00 - 23:59
E-poster session: Non-tuberculous mycobacterial infections and bronchiectasis

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), Chair to be confirmed

Pulmonary nontuberculous mycobacterial disease in elderly patients
Yoshihiro Kobashi (Kurashiki (Okayama), Japan), Masaaki Abe, Daisuke Yoshioka, Shigeki Kato, Toru Oga

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

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
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 Marti, Enric Barbeta Sanchez

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

Bronchiectasis in Italy: data from the national registry IRIDE
Stefano Alberti (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, Meki Crichton, Eva Polverino, James Chalmers, Francesco Blasi

Mycobacterium abscessus activates cross-resistance following antibiotic exposure
Jodie Schildkraut (Nijmegen, Netherlands), Jodie Schildkraut, Jordy Coolen, Jakko Van Ingen

Non-tuberculous mycobacteriosis of the lungs - comorbid pathology.
Anna Sargsyan (Schelkovo, Russian Federation), Natalia Makaryants, Evgeniy Shmelev, Larisa Lepekha

Asthma as a co-morbidity and cause of bronchiectasis: data from the European Bronchiectasis Registry (EMBARC).
Jin-Young Huh (Republic of Korea), Byoung Soo Kwon, Yea Eun Park, Tae Sun Shim, Kyung-Wook Jo

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

Eradication of Pseudomonas aeruginosa within the baseline dataset of the German Bronchiectasis Registry PROGNOSIS
Pontus Mertsch (München, Germany), Isabell Pink, Jessica Rademacher, André De Roux, Stefanie Konwert, Roland Diel, Grit Barten, Annegret Zurawski, Tobias Web, Jürgen Behr, Felix Ringshausen

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

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 Carozzi

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 Aliberti, James Chalmers

Use of Decametoxinum in bronchiectasis
Katerina Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeriia Dmytrychenko

Use of Decametoxinum in bronchiectasis
Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeriia Dmytrychenko

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 Gramigna, Margherita Ori, Alberto Braghiroli, Francesco Blasi, Stefano Alberti

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 Martin

Pre-congress content
Session 164 00:00 - 23:59
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: Aran Singanayagam (London, United Kingdom), Chair to be confirmed

Respiratory Viral Trends in Adults
Christian Yu (Clayton, Australia), Ar Kar Aung, Chuan Foo
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<td>PA2375</td>
<td>Respiratory Viral Trends in Paediatrics</td>
<td>Chuan Tai Foo (Victoria, Australia), Ar Kar Aung, Christiaan Yu</td>
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<td>PA2376</td>
<td>Respiratory viruses in bronchoscopic samples from hematoooncology patients</td>
<td>Abdel fattah Touman (Makkah, Saudi Arabia), Ahmad Sayeed, Eid Al Qurashi, Nabil Ghalib, Ahmad Al Dobyany, Omar Al Nashiwaatty</td>
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<td>PA2377</td>
<td>Predictors of influenza PCR positivity in acute exacerbations of chronic obstructive pulmonary disease</td>
<td>Huiying Xu (Singapore, Singapore), Min Sen Yew, Joo Hor Tan, John Abisheganaden</td>
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<td>PA2378</td>
<td>Influenza point-of-care testing: what is the point?</td>
<td>Matthew Maycock (Glasgow, United Kingdom), Emilie Goldstein, William Harvey, Emilie Bellhouse, Su Su Htwe, Rory Gunson, Brian Choo-Kang</td>
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<td>PA2379</td>
<td>Sporadic coronavirus and human metapneumovirus lower respiratory tract infection in adults: comparison of chest CT findings and correlation with clinical outcomes</td>
<td>Lawrence A. Marinari (Bryn Mawr, United States of America), Madeline A. Danny, Wallace T, Miller, Jr.</td>
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<td>PA2380</td>
<td>Infective triggers for asthma exacerbations in Malta</td>
<td>Stephanie Pullicino (Msida, Malta), Jonathan Debattista, Caroline Gouder, Stephen Montefort</td>
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<td>PA2381</td>
<td>The study of the viral etiology in the infectious exacerbations of chronic bronchitis in Ukraine</td>
<td>Galyna Gumeniuk (Kyiv, Ukraine), Mykola Gumeniuk, Oleksii Denysyov, Olga Denysyova, Svitlana Opimakh</td>
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<td>PA2382</td>
<td>CURRENT MANAGEMENT OF ACUTE BRONCHIOLITIS IN SWITZERLAND</td>
<td>Katharina Hartog (St. Gallen, Switzerland), Cristina Ardura-Garcia, Juerg Hammer, Claudia Kuehni, Juerg Barben</td>
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<td>PA2383</td>
<td>Severe RSV bronchiolitis in children</td>
<td>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</td>
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<td>PA2384</td>
<td>Features of acute respiratory viral infections in pregnant women</td>
<td>Victor P. Kolosov (Blagoveschensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Irina V. Zhukovets, Tatyana V. Talchenkova, Kristina V. Bereza, Anton S. Abuldinov</td>
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<td>PA2385</td>
<td>Rhabdomyolysis in severe viral pneumonias in 2019</td>
<td>Sergey Lukyanov (Chita (Zabaykalsky Krai), Russian Federation), Andrey Malyarchikov, Vladimir Gorbunov, Tamara Gaidukova, Konstantine Shapovalov</td>
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<td>PA2386</td>
<td>Combination of nitazoxanide with oseltamivir compared with oseltamivir in hospitalized patients with influenza</td>
<td>Parvaiz A. Koul (Srinagar (Jammu and Kashmir), India), Hyder Mir, Tajamul Shah</td>
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<td>PA2387</td>
<td>Is the average exhaled nitric oxide concentration (FeNO) effective in detecting respiratory rhinovirus (RV) infections?</td>
<td>Anirban Sinha (Amsterdam, Netherlands), Rene Lutter, Peter Sterk, Barbara Dierdorp, Tamara Dekker, Urs Frey, Edgar Delgado Eckert</td>
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<td>PA2388</td>
<td>The efficacy of the decamethoxin against simple and complex viruses</td>
<td>Galyna Gumeniuk (Kyiv, Ukraine), Galyna Gumeniuk, Iryna Dziublik, Svitlana Fadeeva, Svitlana Opimakh, Oleksii Denysyov</td>
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<td>PA2389</td>
<td>The effectiveness of Influenza vaccination in general Greek population</td>
<td>Eleni Bellou (Glyfada, Greece), Georgia Hardavella, Elissavet Mpampaliari, Elli Keramida, Irma Bracka, Loukia Pappa, Theodore Daskalos, Christos Kritsis, Ioannis Karampinis, Gerassimos Metaxas, Despoina Zorpidou, Eleni Moraitou, Magdalini Makarona, Simona Karabela, Panagiota Demetzis</td>
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<td>PA2390</td>
<td>A multi-centric retrospective study of respiratory tract metapneumovirus infection in immunocompromised patients.</td>
<td>Antoine Al Hamoud (Boulogne Billancourt, France), Nicholas Etienne, Nathalie Pansu, Emilie Catherinot, Antoine Roux, Louis Jean Coudere, Olivier Lortholary</td>
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<td>PA2391</td>
<td>Knowledge, attitudes and practices regarding influenza and TB among health workers during seasonal influenza outbreak</td>
<td>Stamatoula Tsikrika (Athens, Greece), Agis Terzidis, Emanouil Pikoulis</td>
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<td>PA2392</td>
<td>Association of radiologic findings with mortality of patients infected with 2019 novel coronavirus in Wuhan, China</td>
<td>Mingli Yuan (Wuhan, China), Wen Yin, Zhaowu Tao, Weijun Tan, Yi Hu</td>
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Pre-congress content  
Session 165  
00:00 - 23:59

**E-poster session: Epidemiology and understanding of airways diseases in primary care**

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

**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, Sundev Salvi, Deesha Ghorpade, Mohammad Shahidul Islam, Rita Isaac, Su May Liew, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong Kek Pang, Karuthan Chinna, Li Ping Wong, Samir K Saha, Hilary Pinnock

**Additive information from mMRC and CCQ in relation to COPD exacerbations**

Andrei Malinovschi (Uppsala, Sweden), Karin Lisspers, Christer Janson, Hans Hedenström, Kristtina Bröms, Björn Stållberg, Marieann Högman

**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**

Shamil 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 (Istanbul, Turkey), Ayse Turan

**The effect of myofascial release technique on respiratory parameters in hamstring shortness**

Betuł Cınar (Bezmialem Vakıf Üniversitesi, Turkey), Semiramis Ozyilmaz

**Abnormal pain processing in young adults with controlled asthma: an observational study**

Janet Rodriguez Torres (Granada, Spain), Maria Granados Santiago, Alejandro Heredia Ciuró, 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 Ørts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Janus Laust Thomsen, Niels Henrik Bruun, Anders Lokke, Amnelli 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

**Phenotyping OSAS patients based on comorbidities in the Primary Health Care in Greece**

Sotirios Zarogiannis (Larisa, Greece), Panagiota Ntenta, Georgios Vavougios, Konstantinos Gourgoulanis

**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

**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. Brahma, Hilary Pinnock, Ee-Ming Khoo, Aziz Sheikh, Su-May Liew, Chiu-Wan Ng, Rita Isaac, Karuthan Chinna, Li-Ping Wong, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong-Kek Pang, Sanjay Juvekar

**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

**Factors affecting vaccination rates against influenza in adults with asthma**

Tadeusz M. Zielonka (Warszawa, Poland), Jeremy Bigaj, Natalie Czaicki

**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
PA2410  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

PA2411  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

PA2412  Precision of diagnosing COPD everyday practice
Rasa Gauronkskaite (Vilnius, Lithuania), Greta Ragašiënė, Rūta Kibarskytė, Monika Giedraitytė, Agnė Dapšauskaitė, Vytautas Kasiulevičius, Edvardas Danila

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)

PA2413  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 Criee (Bovenden, Germany), Sanaz Bahari Javan, George Georges, Kai Melchior, Raimund Hövelmann, Christian Geñner

PA2414  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

PA2415  Influenza and pneumococcal vaccination in patients with COPD
Nicolas Roche (Paris, France), Bernard Aguillaniu, Pierre-Régis Burgel, Maeva Zysman, David Hess, El-Hassane Ouallaaya, Thi-Chien Tran, Chantal Raherison

PA2416  Alpha-1 antitrypsin deficiency in COPD patients: Time to count it in!
Dilek Karadoğan (Rize, Turkey), Songül Özyurt

PA2417  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

PA2418  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

PA2419  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 Herbanova

PA2420  Withdrawal of ICS in patients with COPD
Anne Orholm Nielsen (Roskilde, Denmark), Ole Hilberg, Jens Ulrik Stehr Hansen, Anders Løkke

PA2421  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

PA2422  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

PA2423  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

PA2424  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, Kirhti Gunasekera, Aniruddha Mukhopadhiy, Vaibhav Gaur, Jaideep Gogtay
Pre-congress 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)

**PA2430** Research priorities in alpha-1 antitrypsin deficiency (AATD) for healthcare professionals
Maria Campos Miranda Duarte Sucena (Porto, Portugal), Miriam Barrechequen Fernandez, Karen O’hana, Marion Wilkens, Jeannette Boyd, Ewa Kolda, Alice Turner, Gerry McElvaney, Ilaria Farrerotti, Jan Stolk, Joanna Chorostowska-Wynimko, Robert Stockley, Timm Greulich, Marc Miravitllés

**PA2431** Prevalence of alpha-1 antitrypsin deficiency (AATD) in Greater Glasgow and Clyde (GG&C) and current practises
Fiona Catterall (Glasgow, United Kingdom), David Anderson

**PA2432** ARE THERE DIFFERENCES IN EXERCISE CAPACITY BY GENDER IN COPD PATIENTES?
Virginia Almadana Pacheco (Sevilla, Spain), Cristina Benito Bernáldez, Lucia Marin Barrera, Rut Ayerbe García

**PA2433** Phenotypic characteristics of asthmatic patients with distal airways obstruction
Nouha Guediri (Tunis, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebbaa, Rihab Jebali, Hafaoua Daghfous, Tritar Fatma

**PA2434** Characterization of a patient population phenotyped for alpha-1-antitrypsin
Mariana Conde (Guimarães, Portugal), Bebiana Conde, Catarina Parra, Artur Vale, Ana Fernandes

**PA2435** 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

**PA2436** Physical activity and cardiac autonomic function in patients with COPD, a cross-sectional analysis
Laura Delgado Ortiz (Barcelona, Spain), Ane Arbellaga-Etxarri, Diego Rodriguez, Elena Gimeno-Santos, Anael Barberan-Garcia, Robert Rodríguez-Roisín, Eva Balcells, Jordi Vilaró, Judith Garcia-Aymerich

**PA2437** 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 Schafauser, Débora Mayumi De Oliveira Kawakami, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Valéria Amorim Pires Di-Lorenzo, Audrey Borghi-Silva

**PA2438** Evaluation of Serum IL-17a, IL-22 And IL-10 Expression in Stable COPD Patients
Sevinc Sarinc Ulasli (Ankara, Turkey), Ersin Günyüz, Sibel Güney, Sefa Celik, Mazaffer Sarıaydın, Secil Demir, Mehmet Unlu

**PA2439** Body mass index in COPD: what relationship?
Salma Mokaddem Mohsen (Tunis, Tunisia), Sahar Chakroun, Asma Chaker, Khadija Ayed, Saloua Jameeddine

**PA2440** Czech national alpha-1 antitrypsin registry
Jan Chlumsky (Praha 4, Czech Republic), Katerina Kusalova

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**Pre-congress 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)

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**PA2440** 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 Dominguez, Maria 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 Migaux, 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 Suleymanova (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 Sheremetyeva, Valeriya Elykonov, 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

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, Semsa 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

Pain sensitivity in stable asthmatic and allergic patients
Irene Torres Sanchez (Santa Fe, Spain), Laura López López, Andrés Calvache Mateo, Alejandro Heredia Ciuró, Araceli Ortiz Rubio, Marie Carmen Valenza

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

Cognitive impairment is present in people with chronic obstructive pulmonary disease
Lissa Spencer (Sydney (NSW), Australia), Wing S. Kwok , Amanda Mcanulty, Jennifer Alison

Working memory impacts endurance for dyspnea
Kazuhiro Kimpara (hamamatsu, Japan), Shinichi Arizono, Maki Tanaka, Yuichi Tawara

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

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, Semsa Savci

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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
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. Vercoulen, Jeannette B. Peters, Daisy J.A. Janssen, Jan W.H. Custers, Martijn A. Spruit

Fatigue in COPD and the impact of multi-morbidity
Yvonne Goertz (Horn, Netherlands), Annemarie Braamse, Martijn Spruit, Daisy Janssen, Zjala Ebadi, Maarten Van Herck, Chris Burtin, Jeannette Peters, Jean Muris, Mirjam Sprangers, Melissa Thong, Jan Vercoulen, Rosanne Beijers, Martijn Van Beers, Eleri Wouters, Annemie Scholls, Judith Rosen, Hans Kroop

Unravelling associations between fatigue and key outcomes in patients with COPD
Patricia Filipa Sobral Rebelo (Trancoso, Portugal), Ana Oliveira, Cátia Paixão, Sara Souto-Miranda, Ana Machado, Ana Alves, Joana Cruz, Cristina Jácome, Sara Almeida, Ana Helena Tavares, Alda Marques

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

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

The relationship between kinesiophobia due to chronic pain and physical functioning in patients with COPD
Takako Tanaka (Nagasaki, Japan), Minoru Okita, Ryo Kozu

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

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, Asli Papurcu, Nazenin Hande Sezgin, Karya Polat, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci

Impact of a Specialist Breathlessness Group
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Joseph Donohoe, Linda Jones, Joanne Hillis, Sarah Sibley, Dennis Wat

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

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)

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
Emmanuel ARIS (WAVRE, Belgium), Esse Ifebi Akpo, Amit Bhavsar, Lauriane Harrington, Evie Merinopoulou, Nicola Sawalhi-Leckenby, Elisa Turriani, Kinga Meszaros, Dimitra Lambrelli, Piaylu Mukherjee

Late Breaking Abstract - Compare outcomes between COPD patients treated with Tiotropium/Olodaterol (TIO/OLO) and other fixed-dose LAMA/LABA's
Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston

Clinical features of eosinophilic COPD
Askin Gülsen (Izmir, Turkey), Burcu 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-β1) 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 Valghese, Mohsen Sadatsafavi, Christer Janson

Effect of Multiple Comorbidities on Mortality in COPD
Won-Kyung Cho (SEOUL, Republic of Korea), Youngmee Kim, Ye-Jee Kim

Skeletal muscle dysfunction among COPD patients in Eastern Europe
Vitalii Poberezhets (Vinnytsia, Ukraine), Szymon Skoczynski, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobiczyk, Yuriy Mostovoy, Adam Barczyk

Characteristics of patients with homogeneous and heterogeneous emphysema
Mostafa Bakeer (Mansoura, Egypt), Marina Duller, Kelly Groß, Georg-Christian Funk, Arschang Valipour

Influence of coexistent Chronic Obstructive Pulmonary Disease in Heart Failure on linear and nonlinear dynamics of Heart Rate Variability
Patricia Camargo (Araraquara, Brazil), MURILO OLIVEIRA, Cássia Goulart, Gullherme Peixoto, Polliana Santos, Patricia Camargo, Renata Mendes, Flavia Caruso, Audrey Borghi-Silva

Early signs of COPD in 42 years old individuals with severe alpha-1-antitrypsin deficiency
Georg Schramm (Trelleborg, Sweden), Eeva Piitulainen, Per Wollmer, Hanan Tanash

COPD burden on sexual well-being
Julia Rubenstein (France), Maeva Zysman, Frédéric Le Guillou, Marie-Hélène Colson, Christiane Pochulu, Leo Grassion, Roger Escamilla, Daniel Piperno, 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 Cid Juarez, Hector 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, Lizzbett 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 Marin, Maria Beatrun Orduna, Zichen Ji, Maria Fernando Moreno, Alfonso Perez Trullen, Javier De Miguel-Diez

Factors affecting survival after severe COPD exacerbations: a single-center experience.
Mariarenica Tine (Padova (PD), Italy), Grazziella Turato, Umberto Semenzato, Erica Bazzan, Marta Zuffellato, Kim Lokar-Oliani, Marina Saetta, Manuel G. Cosio

Impact of diabetes in patients with COPD
Azza Slim (Tunis, Tunisia), Hela Kamoun, Amal Saidane, Yasmine Hdlidène, Hager Ben Abdelghaffar, Hanen Smadhi, Dorra Greb, Ines Akrou, Hela Hassene, Leila Fekih, Mohamed Lamine Megdiche

Pre-congress content Session 170 00:00 - 23:59

E-poster session: Advance in treatments for sleep and breathing disorders and long-term adherence

Epidemiology  General respiratory patient care  Imaging  Public health  Pulmonary rehabilitation  Physiology

Chairs: Jean-Louis Pépin (Grenoble, France), Dries Testelmans (Leuven, Belgium)

Association between continuous positive airway pressure, weight change and glycaemic control in patients with type 2 diabetes
Louisa Schaller (Kümmersbruck, Germany), Michael Arzt, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Stadler
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<td>Bone Metabolism in OSAS Patients and the Effect of One Year Treatment with Non-Invasive Ventilation</td>
<td>Daniela Krasimirova (Sofia, Bulgaria), Daniela Petrova, Ognian Georgiev, Radoslav Bilyukov, Tsanko Mondeshki, Ventsislava Pencheva, Sevda Naydenska, Martin Nikolov, Petko Shoshkov</td>
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<td>PA2489</td>
<td>Risk factors for non-compliance with continuous positive airway pressure therapy in patients with obstructive sleep apnea and paroxysmal atrial fibrillation</td>
<td>Gunn Marit Traaen (Oslo, Norway), Maria Kristina Vik-Strandli, Britt Overland, Lars Aakerøy, Tove-Elizabeth Hunt, Christina Bendz, Nina Bredesten, Lars Øvind Sande, Svend Aakhus, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Jan Pål Loennechen, Harriet Akre, Lars Gullestad</td>
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<td>PA2490</td>
<td>Telecoaching to improve physical activity in patients with obstructive sleep apnea treated with CPAP</td>
<td>Bart Vrijsen (Linkhout, Belgium), Thierry Troosters, Bertien Buyse, Pham Anh Hong Nguyen, Dries Testelmans</td>
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<td>PA2491</td>
<td>A comparison of sleep disordered breathing events detected by CPAP devices with in-lab polysomnography</td>
<td>Georg Nilius (Dortmund, Germany), Maik Schroeder, Ulrike Domanski, Matthias Richter</td>
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<td>PA2492</td>
<td>The frequency of medical co-morbidities and their impact on adherence to upper airway stimulation for obstructive sleep apnea.</td>
<td>Patrick Strollo (Pittsburgh, United States of America), Ryan Soose, Clemens Heiser, Armin Steffen, Joachim Maurer, Olivier Vanderveken</td>
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<td>PA2493</td>
<td>Prevalence and determinants of residual excessive daytime sleepiness (RES) in patients treated with continuous positive airway pressure (CPAP) for obstructive sleep apnea (OSA).</td>
<td>Renaud Tamisier (Grenoble, France), Jessica Richoux, Sébastien Bailly, Sebastien Bailleul, Rita Guzun, Marie Destors, Jean Louis Pépin</td>
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<td>PA2494</td>
<td>Effects of shifts between nasal- and oronasal masks on positive airway pressure adherence: analysis of a German healthcare provider database</td>
<td>Michael Arzt (Regensburg, Germany), Christoph Schoebel, Joachim H Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Holger Woehrle</td>
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<td>PA2495</td>
<td>Blood pressure reduction following treatment with positive airway pressure in sleep apnea - data from the E SADA</td>
<td>Ludger Grote (Göteborg, Sweden), Sven Svedmyr, Jan Hedner, Ding Zou, Sebastien Bailly, Carolina Lombardi, Ondrej Ludka, Marisa Bonsignore, Jean-Lois Pépin, Sofia Schiza, John Arthur Kvarmne, Ozen K. Basoglu, Johan Verbraecken</td>
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<td>PA2496</td>
<td>Impact of different positive airway pressure-therapy care models on longer-term therapy termination rates</td>
<td>Holger Woehrle (Ulm, Germany), Jochen Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Christoph Schoebel, Michael Arzt</td>
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<td>PA2497</td>
<td>CPAP treatment increases anxiety in coronary artery disease patients with nonsleepy obstructive sleep apnoea: The RICCADA randomized controlled trial</td>
<td>Yeliz Çelik (Istanbul, Turkey), Erik Thunström, Patrick J Strollo, Yüksel Peker</td>
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<td>PA2498</td>
<td>Negative Affectivity and Social Inhibition influences adherence to positive pressure treatment in patients with sleep respiratory disorders</td>
<td>Sebastian Rodriguez-Llamazares (Ciudad de México, Mexico), Margarita Reyes-Zúñiga, Yadira Rodriguez-Reyaz, Juan Sebastián Reyes-Silva, Selene Guerrero-Zuñiga</td>
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<td>PA2499</td>
<td>High flow-nasal cannula oxygen treatment in patients with concomitant severe chronic obstructive pulmonary diseases and mild-moderate sleep apnea (overlap syndrome).</td>
<td>Lucia Spicuzza (Sant’Agata Li Battiati (CT), Italy), Raffaele Campisi, Claudia Crimi, Stefano Alia, Marialuisa Giuffrida, Nunzio Crimi</td>
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<td>PA2500</td>
<td>Effects of positive airway pressure (PAP) modalities on central apnea and crackles in heart failure</td>
<td>Maree Milross (Sydney, Australia), Mark Norman, Michael Wilson, Gary Baker, Colin Sullivan</td>
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<td>PA2501</td>
<td>Acetazolamide is effective treatment of Cheyne-Stokes respiration in patients with chronic heart failure</td>
<td>Alexander Palman (Moscow, Russian Federation), Mariya Poltavskaya, Kliya Sorokina</td>
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<td>PA2502</td>
<td>Treatment of patients with complex and central sleep-disordered breathing with adaptive servo-ventilation (ASV): the READ-ASV registry</td>
<td>Michael Arzt (Regensburg, Germany), Oliver Munt, Holger Woehrle, Raphael Heinzner, Adam Benjafield, Jean-Louis Pepin</td>
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<td>PA2503</td>
<td>The role of positive airway pressure treatment for Obstructive Sleep Apnea in Pulmonary Embolism</td>
<td>Joana Patricia Almeida Borges (Coimbra, Portugal), Fátima Pradinho</td>
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<td>PA2504</td>
<td>Effect of continuous positive airway pressure in patients with paroxysmal atrial fibrillation and obstructive sleep apnea</td>
<td>Gunn Marit Traaen (Oslo, Norway), Lars Aakerøy, Tove-Elizabeth Hunt, Britt Overland, Christina Bendz, Nina Bredesten, Lars Øvind Sande, Svend Aakhus, Hasse Zare, Morten Fagerland, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Harriet Akre, Jan Pål Loennechen, Lars Gullestad</td>
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E-poster session: Phenotyping sleep-disordered breathing and its impact on various diseases

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

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

**Chairs:** Jan A. Hedner (Göteborg, Sweden), Sophia E. Schiza (Heraklion, Greece)

**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 Aguilera, Pilar Calvillo Batles, Jose Daniel Gomez Olivas, Alba Cevaro Rubio, Enrique Zaldívar 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, Hiroyumi Takeyama, Takuma Minami, Satoshi Hamada, Osamu Kanai, Kiminobu Tanizawa, Isuzu Nakamoto, Takahisa Kawaguchi, Kazuya Setoh, Takenobu Tsutsui, 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

**Lung 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 Tam, Daiana Stolz

**Impact of cardiac sympathetic denervation on IH-induced ischemic cardiomyopathy aggravation**
Maximin Détroit (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 Strassberger (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 Friedel (Regensburg, Germany), Michael Arzt, Claudia S. Zimmermann, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Studler

**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 McNicholas, Athanasia Pataka, Pawel Sliwinski, Ozen K Basoglu

**A complex network approach for gender phenotyping of patients with obstructive sleep apnea syndrome**
Stefan A. Milaicuța (Timisoara (Timis), Romania), Alexandru Topiceanu, Mihai Udrescu, Lucretia Udrescu

**Association between obstructive sleep apnea and cancer in men in the general population after 20 years of follow-up**
Carmen Rodriguez 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

Pre-congress content

Session 172

00:00 - 23:59

E-poster session: Consequences for obstructive sleep apnoea and potential modalities for early identification

Disease(s): Sleep and breathing disorders

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

Chairs: Carolina Lombardi (Milano (MI), Italy), Renaud Tamisier (Grenoble, France)

PA2520

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 Trakov

PA2521

PERIPHERAL ARTERIAL TONOMETRY AND INTIMA MEDIA THICKNESS IN OBSTRUCTIVE SLEEP APNEA.

Javier Errasti Viader (Pamplona (Navarra), Spain), Maria Teresa Martín Carpi, Jose Maria Marín Trigo, Victoria Gil, Raquel Langarita

PA2522

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

PA2523

Is there a relationship between sleep apnea and microalbuminuria?

Melek Cihanbeylerden (Ankara, Turkey), Melike Bağnu Yüceeye, Bahar Kurt

PA2524

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 Sofova, Katarina Moravcova, Shayan Nadjarpour

PA2525

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 Eguileta, Fabiola Escobar, Marta Cabello, Juan José Ruiz, Maríán Martinez, Soraya Fonseca, Carlos Queipo

PA2526

Cardiovascular comorbidity by clinical phenotypes of obstructive sleep apnea and sleeping hours

Anna Torrente Nieto (Reus, Spain), Eric Rojas Calvera, Marta Planas Pes, Anton Obrador Legares, Immaculada Castellà Dagà, Mercè Salvans Sagué, Emili Marco Segarra, Xavier Espuña Capote, Daniela Soledad Torres Scianca, Susana Mota Casals, Marc Comas Cuñí, Rafel Ramos Blanes, Ramon Orríols Martinez

PA2527

Is Obstructive Sleep A pnea a risk factor for G estational Diabetes?

Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mochales, Caterina Ribot Quetglas, Maria Barceló Nicolau, Aimho Alvarez Ruiz De Larriaga, Antonia Barceló Bennisar, Amanda Iglesias Coma, Daniel Morell Garcia, Mónica De La Peña Bravo, José Antoio Peña Zarza, Margarita Bosch Artigues, Maria Paloma Giménez Carrero, Joaquín Durán Cantolla, José María Marín Trigo, Mercedes Codina Marcat, Paula Rodríguez Rodriguez, Carla Pia Martinez, Maria Concepción Piñas Cebrián, Andrés Sánchez Barón, Alberto Alonso Fernández, Francisco García Rio

PA2528

Renal function impairment and prediction of sleep apnea in patients with high cardiovascular risk

Stefan A. Mihaicuta (Timisoara (Timis), Romania), Roxana Maria Pleava, Stefan Frent, Carmen Ardelean, Svetlana Mosteuro, Dan Gaita

PA2529

Sleep Disordered Breathing association with cardiovascular disease in the French general population

Pauline BALAGNY (Paris, France), Emmanuel Wiernik, Joane Matta, Justine Frija-Masson, Emmanuelle Vidal-Petiot, Philippe Gabriel Steg, Céline Ribet, Marcel Goldberg, Marie Zins, Marie-Pia D’Ortho

PA2530

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 Martín, Luis Puente Maestu

PA2531

High CRP plasma levels in OSA patients correlate with high Pichot fatigue scale score

Nikolay Evgeniev (Ruse, Bulgaria), Rumelia Nikolaeva, Nikolay Conev, Ivan Donev

PA2532

Serum fibrinogen in patients with obstructive sleep apnea

Kunal Khanderao Deokar (Thane (Maharashtra), India), Sushant Meshram, Gopal Chawla, Nana Kunjir, Chetna Meshram
Predictors of abnormalities of the right heart chambers evaluated by echocardiography during OSA
Khalil Zayen (Ariana, Tunisia), Houda Snen, Ramy Tlili, Hana Blibeche, Jailoul Daghflous, Youssef Ben Ameur, Nozha Ben Salah, Nadia Mhiri, Bechir Louzir

Prevalence of gastroesophageal reflux symptoms in obstructive sleep apnea
Stefano Pini (Bulgarograsso, Italy), Maurizio Rizzi, Marina Saad, Paolo Gabordi, Marica Pecis, Dejan Radovanovic, Pierachille Santos

Moderate-to-severe sleep apnea is associated with elevated amino acid levels in peripheral blood
Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taaleb, Ketlin Veevälä, Ragne Tammi, Triin Laurits, Birgit Ahas, Martin Juss, Tuuliki Hion, Roman Pihlakas, Kalle Kilk, Ursel Soomets, Alan Alraja

Relationship between obstructive sleep apnea and human leukocyte antigen variants
Adil Zamani (Konya, Turkey), Ayse Gul Zamani, Sebnem Yosunkaya, Hulya Yatansev, 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 (Schwandorf, Germany), Maria Tafelmeier, Simon Lebek, Stephan Hirt, Bernhard Floerchinger, Daniele Camboni, Marcus Creutzemberg, Florian Zeman, Christof Schmid, Lars S. Maier, Stefan Wagner, Michael Arzt

Sleep perception in obstructive sleep apnoea: 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, Joao Almeida Cardoso, Flavio Jose Magalhaes 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 Mochales, Caterina Ribot Quetglas, Maria Barceló Nicolau, Ainhou Alvarez Ruiz De Larriaga, Antônia Barceló Bennisar, Amanda Iglesias Coma, Daniel Morell Garcia, Mónica De La Peña Bravo, José Antonio Peña Zarza, Margarita Bosch Artigues, María Paloma Giménez Carrero, Joaquín Durán Cantolla, José María Marín Trigo, Mercedes Codina Marcket. Paula Rodriguez Rodriguez, Carla Pia Martinez, Maria Concepción Piñas Cebrián, Andrés Sánchez Barón, Alberto Alonso Fernández

Obstructive Sleep Apnea causes negative impact on parasympathetic modulation of patients with COPD
Patricia Camargo (Araraquara, Brazil), Luciana Di Thommazo-Luporini, Rayane Sebold, Cássia Goulart, Maria Paloma Giménez Carrero, Joaquín Durán Cantolla, José Maria Marín Trigo, Mercedes Codina Marcket. Paula Rodriguez Rodriguez, Carla Pia Martinez, Maria Concepción Piñas Cebrián, Andrés Sánchez Barón, Alberto Alonso Fernández

Structural cardiac changes during REM and non-REM sleep in patients with myocardial infarction.
Elvira Bondia Real (Valencia, Spain), Jose Gavara, Cesar Navarro, Vicente Bodi, Maria Pilar Bañuls, Paolo Racugno, Maria Pilar López-Lereu, Jose Vicente Momemeneu, Claudia Heras, Jaime Signes

Echocardiography findings in patients with obstructive sleep apnea syndrome
Touil Imen (Mahdia, Tunisia), Keskess Bouawara Nadia, Bouchareb Soumaya, Ibn Hadj Amor Hassen, Chebbi Riheb, Hasnaoui Mohamed Taha, Ben Rhouna Chaima, Nensu Elaa, Romdhani Raja, Bouchnak Iskander, Knaani Jalel, Bousoffara Leila
### 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  
Airway diseases  
Pulmonary vascular diseases

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

**Chairs:** Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Pierantonio Laveneziana (Paris, France)

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**PA2553** 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, Sébastien Bailly, Bruno Degano, Renaud Tamisier, Gilbert R. Ferretti, Jean-Louis Pépin

**PA2554** The “right way” to the left chamber in non-severe chronic obstructive pulmonary disease  
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zhymna Cherneva

**PA2555** Role of lung hyperinflation on cardiac function during acute exacerbations of COPD  
Andrea Cristiano (Peschiera Borromeo (MI), Italy), Maurizio Rizzi, Dejan Radovanoic, Chiara Di Simone, Giuseppe Croee, Giangiuseppe Negretto, Pierachille Santus

**PA2556** Bronchodilator acutely reduces expiratory flow limitation during exercise in COPD demonstrated by dynamic hyperinflation, flow-volume curve analysis and impulse oscillometry  
Janos Porszasz (Torrance, United States of America), Min Cao, Fang Lin, Wei Yuan, Robert Calmelat, Harry Rossiter, Richard Casaburi, William Stringer

**PA2557** Respiratory muscle perfusion limitations and dyspnoea during cycling in chronic obstructive pulmonary disease  
Zafeiris Louvaris (Leuven, Belgium), Dacha Sauwaluk, Antenor Rodrigues, Wim Janssens, Rik Gosselink, Daniel Langer

**PA2558** A frame of reference for assessing the intensity of exertional dyspnoea during incremental cycle ergometry in men and women, aged 20 to 85  
J. Alberto Neder (Kingston (ON), Canada), Danilo Berton, Luiz Nery, Denis O'Donnell

**PA2559** Longitudinal follow-up of older former smokers reveals rapid decline in muscle oxidative capacity and physical activity  
Alessandra Adami (Kingston, United States of America), Harry B. Rossiter, Fenghai Duan, Robert A. Calmelat, Kelsey Williams, Richard Casaburi

**PA2560** Transcutaneous PCO2-based dead space ventilation is highly accurate to discriminate COPD patients from healthy controls at submaximal exercise  
Laurent Plantier (Tours Cedex 9, France), Thibault Leprat, Fabrice Ivanes, Marchand-Adam Sylvain

**PA2561** High altitude affects the heart  
Camilla Udjus (Oslo, Norway), Torbjorn Tunestveit, Pavel Hoffmann, Ivar Sjaastad, Karl-Otto Larsen, Ole Henning Skjønsberg, Ulla Hjornholm, Morten Rostrup
Identifying a criterion heart rate recovery after 6 minute walk in COPD
Dongxing Zhao (GUANGZHOU, China), Dongxing Zhao, Asghar Abbasi, Alessandra Adami, Christopher Yee, Nicholas B. Tiller, Wei Yuan, William W. Stringer, Janos Porszasz, Richard Casaburi, Barry J. Make, Russell P.. Bowler, Harry B. Rossiter

Dynamic hyperinflation, chronotropic intolerance and abnormal heart rate recovery in non-severe chronic obstructive pulmonary disease patients-reflections in the mirror
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

Sleep stages automatically scored from mandibular movement signal recorded by a unique chin sensor
NHAT-NAM LE-DONG (Sorinnes, Belgium), Jean Louis Pépin, Clément Letesson, Antoine Dedave, Valérie Cuthbert, Jean Benoit Martinot

The sleepy phenotype in mild OSA patients: characteristics and their cardiometabolic risk. Data from the European Sleep Apnea Data Base (ESADA)
Izolde Bouloukaki (Heraklion (Crete), Greece), Marisa Bonsignore, Ludger Grote, Walter McNicholas, Jan Hedner, Johan Verbraecken, Silke Ryan, Carolina Lombardi, Ozen Basoglu, Athanasia Pataka, Oreste Marrone, Sebastien Bailly, Jean-Louis Pepin, Paschalís Steiropoulos, Sophia Schiza

Transcutaneous electric stimulation: an alternative to CPAP
Jose Belda Ramirez (Mislata (Comunidad Valenciana), Spain), Jose Belda, Vicente Macian

Sleep apnoea is not associated with the presence of coronary collateral arteries in patients with pending bypass surgery
Verena Stallhofer (Regensburg, Germany), Michael Arzt, Maria Tafelmeier, Stephan Hirt, Daniele Camboni, Bernhard Floerchinger, Stefan Stadler

Can we increase CPAP compliance by performing a CPAP trial?
Elif Torun Parmaksiz (İstanbul, Turkey), Gizem Türkeş, Gülten Aktın Güngör, Nesrin Kiral, Coşkun Doğan, Sevda Cömert

Pre-congress content
Session 175 00:00 - 23:59

E-poster session: Physiological and cellular mechanisms affecting pulmonary pathologies
Disease(s) : Respiratory critical care, Interstitial lung diseases, Airway diseases, Sleep and breathing disorders
Method(s) : Cell and molecular biology, Pulmonary function testing, Physiology, Respiratory intensive care, Imaging, Pulmonary rehabilitation

Chairs: Pieter S. Hiemstra (Leiden, Netherlands), Maria Granados Santiago (Alcaudete, Spain)

Correlation of bronchial inflammation pattern and airway response to cold stimulus in patients with uncontrolled asthma
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Alexey B Pirogov, Anna G. Prikhodko, Victor P. Kolosov, Andrey N. Odireev

Are genetic defects of dienin a key link in the pathogenesis of COPD?
Vyacheslav Kobylyansky (Moscow, Russian Federation)

State of the cellular components of the surfactant system in case of experimental diabetes mellitus.
Yuliya Fedorchenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaïats

Influence of nutritional features on the generation of reactive oxygen species in the lungs

PURINERGIC SIGNALING AND LYMPHOID ORGANS ARE INVOLVED IN THE BENEFICIAL EFFECTS OF AEROBIC TRAINING IN ASTHMA
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Manoel C. Oliveira-Junior, Alana Santos-Dias

Absence of P2X2 purinergic receptors in human taste bud innervation
Thomas Finger (Aurora, United States of America), Brigit High

DYNAMICS OF GLUTATION SYSTEM INDICATORS IN CHRONIC LUNG DISEASES ON MODEL INHALED TREATMENT
Lilia Todoriko (Chernivtsi, Ukraine), Mykola Humenyuk, Ihor Semianiv, Tania Spryansian

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.
Chanelle Cyr-Depauw (Ottawa (ON), Canada), Arul Vadivel, David Cook, Ivana Mižíková, Laurent Renesme, Yupu Deng, Shumei Zhong, Marius Alexander Möbius, Bernard Thébaud
**Physiological and Immunological Effects of Naïve 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

**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

**Stromal cell diversity and functions in lung epithelial regeneration**
Paris Papagianis (Melbourne, Australia), Jonathan Mcqualter

**Activation of WNT co-receptor LRP5 is required for WNT and TGF-ß1 induced fibroblast activation**
Ewa Kolosionek (Göteborg, Sweden), Rajneesh Malthotra, Henric Olsson, Stephen Delaney

**Significance of nuclear upregulation of LOXL2 in fibroblasts and myofibroblasts in the fibrotic process of acute respiratory distress syndrome**
Ayako Matsuo (Miyazaki, Japan), Shigeisia Yanagi, Hironobu Tsubouchi, Ayako Miura, Takaumi Shigekusa, Nobuhiro Matsunoto, Masamitaka Nakazato

**c-Met expression induction in immune cells modulates pulmonary fibrosis progression**
Catarina Barbosa-Matos, Caroline Borges-Pereira, Sofia Libório-Ramos, Massimiliano Mazzone, Sandra Costa

**Role of the kinase-dependent functions of RIPK1 in COPD**
Hannelore Van Eekhoute, Yves Dondelinger, Tom Delanghe, Peter Vandenabeele, Guy G. Brusselle, Mathieu J.M. Bertrand, Ken R. Bracke

**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, Joschka Hey, Claus Peter Heubel, Arne Warth, Giuseppe Petrosino, Raluca Tamas, Dieter Weichenhan, Benedikt Brors, Vladimir Benes, Felix Heath, Dawid Wyatt, Heiko Stahl, Christoph Plass

**LSC - 2020 - The lung DNA methylation profile of patients with COPD: relationship with smoking and airflow limitation severity.**
Sandra Casas Recasens (Barcelona, Spain)

**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)

**The first years of the Swedish National Airway register**
Caroline Stridsman (Luleå, Sweden), Jon Konradsen, Lowie Vanfleteren, Christophe Pedroletti, Jonas Binmyr, Peter Edfelt, Yvonne Sjöö, Kerstin Fjällman-Schärberg, Ann Lindberg, Alf Tunsäter, Ann Ekberg Jansson

**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

**Effect of non-response on prevalence of respiratory symptoms in the West Sweden Asthma Study.**
Eivind Christian Borns (Moss, Norway), Cathrine Gennet Jakobsson, Bright Nwaru, Bo Lundbäck, Linda Ekerljug
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

Association between chronic obstructive pulmonary disease and endometriosis: a population-based cohort study
Yi-Hao Peng (Taichung, Taiwan)

Prevalence of COPD in women in Tizi-Ouzou, Algeria
Nadia Hammache (Alger, Algeria), Salmi Naifti, Rachid Abdellaziz

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

SCREENING FOR UNDERDIAGNOSED CHILDHOOD ASTHMA IN BATUMI (GEORGIA)
Grzegorz Brożek (Katowice, Poland), Vakhtang Beridze, Tamar Bakhtadze, Sophio Beridze, Megi Khabazi, Jan Ziejda

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

Intraoperative ventilation management differs between genders – insights from a worldwide prospective cohort study
Sunny Nijbroek (Amsterdam, Netherlands), Ary Serpa Neto, Sabrine Hemmes, Marcus Schultz

Discordant perception of global health between COPD patients 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 Lamprecht

Comparison of five major airflow limitation criteria to identify high-risk individuals with COPD in the general population
Shoaib Afsal (Herlev, Denmark), Yunus Çolak, Børge G. Nordestgaard, Jørgen Vestbo, Peter Lange

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), Pierpaulo Marchetti, Alessandro Marcon, Giancarlo Pesce, Lucia Calciano, Christer Janson, Deborah Jarvis, Nicole Probst-Hensch, Cecile Svanes, Giuseppe Verlato, Cosetta Minelli

European Trends in Chronic Obstructive Pulmonary Disease Mortality and Incidence rates 2001 to 2017
Dominic Marshall (Oxford (Oxfordshire), United Kingdom), Justin Salciccioli, Peter Dobson, Fan Chung

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 Satybaldyev, 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

Pre-congress content Session 177 00:00 - 23:59
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
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<th>PA2609</th>
<th><strong>Late Breaking Abstract - BENRALIZUMAB IN SEVERE ASTHMA: PRELIMINARY RESULTS FROM THE ITALIAN ANANKE STUDY</strong></th>
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<td>Girolamo Pelaia (Tiriolo (CZ), Italy), Maria D'Amato, Pierluigi Bracciale, Elena Altieri, Maria Filomena Caiaffa, Fausto De Michele, Micaela Romagnoli, Elena Ansaldo, Giorgio Walter Canonica</td>
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<th>PA2610</th>
<th><strong>Late Breaking Abstract - Defining a severe asthma super-responder: findings from a Delphi process</strong></th>
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<td>John Upham (Brisbane (QLD), Australia), Chantal Le Lièvre, David Jackson, Matthew Masoli, Michael Wechsler, David Price</td>
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<th>PA2611</th>
<th><strong>Late Breaking Abstract - Pharmacological and clinical management of severe asthma in 9 countries: An international survey of clinicians.</strong></th>
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<tr>
<td>Olina Ethymiadou (London, United Kingdom), Bregtje Kamphuis, Victoria Tzouma, Panos Kanavos</td>
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<th>PA2612</th>
<th><strong>Real life benralizumab effect in patients with severe eosinophilic asthma after 16 weeks of observation</strong></th>
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<td>Elda Graziani (Fiumicino (RM), Italy), Arianna Sanna, Paola Scarano, Ilaria Menichini, Cecilia Cisternino, Roberto Flore, Corina Tomsa, Paolo Palange</td>
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<th><strong>Does use of hormonal contraceptives impact on exacerbations and control in reproductive-age women with asthma? A 17-year-population-based cohort study</strong></th>
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<td>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 Soyiru, Francis Appiagyei, Aziz Sheikh, Bright Nwaru</td>
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<th>PA2614</th>
<th><strong>Inter-rater reliability of a novel algorithm to calculate Global Initiative for Asthma (GINA) treatment steps</strong></th>
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<td>Karen Hjerrild Andreasson (Næstved, Denmark), Trine Hjerrild Andreasson, Charlotte Suppli Ulrik, Kirsten Sidenius, Søren T Skou, Mike Thomas, Uffe Bodtger</td>
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<th>PA2615</th>
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<td>Andrea Carolina Perez Figuera (Madrid, Spain), Diurbis Velasco, Raquel Morillo, Aurora Solier, Carlos Almonacid</td>
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<td>Caterina Bucca (Torino (TO), Italy), Luisa Brussino, Irene Ridolfi, Francesca De Blasio, Stefania Nicola, Giovanni Rolla</td>
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<th>PA2617</th>
<th><strong>Patient preferences for asthma management: a qualitative study</strong></th>
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<td>Christina Baggott (Wellington, New Zealand), Amy Chan, Sally Hurford, James Fingleton, Richard Beasley, Matire Harwood, Helen Reddel, William Levack</td>
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<td>Maria Barca Hernando (Sevilla, Spain), Diana Ramos Apoyala, María Auxiliadora Romero Falcón, Juan Francisco Gallardo Medina, Francisco Javier Alvarez Gutiérrez</td>
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<th><strong>SNPs in asthma patients: gender difference in anti-leukotriene therapy</strong></th>
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<td>Giuseppe Spaziano (Napoli (NA), Italy), Renata Esposito, Davida Mirra, Elena Piegari, Antonietta Rossi, Fiorentina Roviezzo, Luca Gallelli, Liberato Berrino, Bruno D’Agostino</td>
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<th><strong>THE IMPACT OF REFLEXOLOGY AND HOMEOPATHY ADDED TO CONVENTIONAL ASTHMA TREATMENT ON MARKERS OF AIRWAY INFLAMMATION– A RANOMISED STUDY</strong></th>
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<td>Ayfer Topcu (Aarhus, Denmark), Anders Løkke Ottesen, Leila Eriksen, Lars Peter Nielsen, Ronald Dahl</td>
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<td>Vorawut Thanthitianweewat (Bangkok, Thailand), Nophol Leelayuwatanakul, Thitiwat Sriprasart</td>
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<th><strong>Study to evaluate clinical burden related with oral corticosteroids treatment of severe asthma in Spain (LEVANTE)</strong></th>
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<td>Xavier Munoz Gall (Barcelona, Spain), Javier Dominguez Ortega, Silvia Pascual Erquicia, Carlos Cabrera Lopez, Cecilia Jacqueline Martin Panadero, Gema Monteagudo Ruiz, Gustavo Resler</td>
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<th>PA2623</th>
<th><strong>Prescribing Trends of Oral Corticosteroids Among Young Adults with Active Asthma</strong></th>
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<td>Inge Raadal Skov (Odense, Denmark), Daniel Pilsgaard Henrikson, Anton Pottegård, Hanne Madsen, Jesper Romhild Davidsen</td>
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<th>PA2624</th>
<th><strong>Prevalence of alpha1-antitrypsin deficiency and its influence on lung function decline in patients with severe asthma</strong></th>
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<td>Parul Dayal (South San Francisco, United States of America), Dorothy Cheung, Carlos Iribarren, Michael Rothenberg, Yingjie Ding, C. Victor Spain</td>
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The profile of poor ICS adherence in uncontrolled moderate to severe asthma.
Lauren 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, Mehrrad Farahani, Negar Bandegani, Javad Valizadeh, Habib Emami

Pre-congress content  Session 178  00:00 - 23:59

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 β2-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 Quince, 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 Pavord, 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 Calzetta

Overuse of short-acting beta-agonists (SABA) and risk factors among patients with asthma
Heinrich Wöhr (Cadalzburg, Germany), Carl-Peter Criée, 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, Agustin Sojo, Anna Salina, Pritam Gupta, Lorena Garcia Conde

Adherence to FDC Budesonide/Formoterol treatment and lung function of Greek asthmatic patients- COMPLETE study
Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Polyantia Papanastasiou, Aiakaterini Athanassiou, Alexandros Giminis

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 Kucharczyk, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Edyta Zagrajek, Marek L Kowalski
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 Chippas

- **Spirometry vs Impulse oscillometry in evaluation of children with asthma.**
  Varun Garg (New Delhi, India), Ankit Parakh

- **Bronchodilation test: Salbutamol or Ipratropium Bromide?**
  Liliana Raposo (Queijas, Portugal), Raquel Barros, Ana Sofia Oliveira, João Valença, Cristina Bárbara

- **Analysis of pollen composition and connection with sensitization of residents of Tashkent city**
  Elnara Ismailova (Tashkent, Uzbekistan), Stefania Katsamaki, Nigora Magbulova, Yuliya Levickaya, Gulnara Djambekova, Mokhigil Ismatova, Konsuluv Sokhibnazarova, Mirzakamol Ayubov, Victoriya Garib

- **Predictors of asthma non control**
  Houda Snène (Tunis, Tunisia), Hana Bliebech, Meriem Ben Rhouma, Asma Zaaafouri, Donia Belkhir, Line Kaabi, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

- **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 David (Quezon City, Philippines)

- **Seasonal fluctuations in lung function and asthma control in patients with airway osmotic hyperresponsiveness**
  Evgenia Y. Afanaseva (Blagoveschensk (Amur Oblast), Russian Federation), Anna G. Prikhodko, Juliy M. Perelman

- **Distribution of ACO among the Obstructive Airway Diseases (OADs) - 9 month study.**
  Rajesh Agrawal (Bareilly, India), Rajat Agarwal, Sonia Goel
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, Diurboys Rodríguez Calle Velasco Álvarez, Carmen Rodríguez Calle, Aurora Solier López, Alfonso Mariel García, Raquel Morillo Guerrero.

Socioeconomic Status and Cleaning: Major Factors Affecting Asthma Control
Umran Ozden Sertcelik (Ankara, Turkey), Ebru Celebioglu, Gul Karakaya, Ahmet Ugur Demir, Ali Fuat Kalyoncu.

Influence of asthma on hemodynamic parameters according to volume compression oscillimetry.
Anton Shakhnov (Ryazan, Russian Federation), Oleg Uryasev, Irina Nikiitina.

Predictors of low-level disease-specific knowledge in patients with chronic obstructive pulmonary disease
Sang Hee Lee (Gunpo, Republic of Korea), Ki Uk Kim, Yun Seong Kim, Hye-Kyung Park, Min Ki Lee.

Sensitization to Salsola kali pollen depends on the age of the patients
Nigora Magbulova, Stefania Katsamaki, Mokhigul Ismatova, Gulnara Djambekova, Yuliya Levitskaya, Victoriya Garib.

Exploring factors related to physical inactivity in asthma and COPD overlap (ACO)
Tsunahiko Hirano (Ube, Japan), Keiko Doi, Keita Murakawa, Ayumi Chikumoto, Yuichi Ohteru, Kazuki Matsuda, Kazuki Hamada, Ryo Sueyake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga.

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 Domenica, Giulia Accordino, Manuela Coretti, Laura Saracino, Vanessa Ronzoni, Angelo Guido Corsico.

Exploration of systemic inflammation, oxidative stress and endothelial dysfunction in COPD, asthmatic and ACO patients with obesity.
Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Oksana Prituliak, Iryna Nemish.

Fixed obstruction in asthma patients - does it matter?
Temenuzhka Ignatova-Danova (Rousse, Bulgaria), Iliya Krachunov, Pavlina Glogovska, Plamen Pavlov, Elena Borisova, Tsanya Popova, Nikolay Kyuchukov, Yavor Ivanov.

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 pulmonology Pulmonary rehabilitation Public health Palliative care Epidemiology Physiology
Chairs: Thomas Jones (Portsmouth (Hampshire), United Kingdom), Anneke Ten Brinke (Molenend, Netherlands)

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, Jose Antonio Gutierrez, Francisco Jose 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 Schonfeld, Angelina Catanazari, 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 Tschirren, 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 Cameli, Alfonso Carleo, Pierangelo 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 and to identify indicators of NIV failure in patients of AECOPD with type 2 respiratory failure - Pilot study
Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari, Uma Devara

Characterising symptom ‘trajectotypes’ in patients with COPD
Andreas Halner (OXFORD (Oxfordshire), United Kingdom), Dan Nicolau, Mona Bafadhel

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, Maureen George, Kevin Murphy

Effectiveness of community-based interventions following multi disciplinary team discussion in COPD patients
Cecilia Rafique (Glasgow, United Kingdom), Stacey Smiflie, Geesh Jayasekera, Hannah Bayes, David Anderson

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 Krogh, Celeste Porsbjerg

The impact of maintenance oral corticosteroids (OCS) on disease burden and type-2 inflammatory signal in the Wessex Severe Asthma Cohort (WSC)
Laura Wiffen (Portsmouth, United Kingdom), Thomas Brown, Lauren Fox, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Peter Howarth, Aanoop Chauhan

Predictive factors of mechanical ventilation need after NIV during acute exacerbations of COPD.
Ahmed Ben Saad (Monastir, Tunisia), Samah Joobeur, Asma Migau, 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 Guldaval, Ozgur Batum, Gulru Polat, Ali Kadri Cirak

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 Kho (Kuala Lumpur, Malaysia), Chair to be confirmed

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

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
The sensitivity and specificity of specific IgE in diagnosing asthma
Heinze Andringa (Groningen, Netherlands), Janwillem Kocks, Ellen Van Heijst, Renaud Louis, Iñigo Ojanguren Arranz, Roland Riemersma, Dermot Ryan, Omar Usmani, Bertine Flokstra-De Blok

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

ECG Abnormalities in Acute Exacerbation of Bronchiectasis
FATIMA ALHAMED ALDUIHI (ALEPPO, Syrian Arab Republic)

Patients with COPD prescribed inhaled corticosteroid 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

Real world use of opioids in COPD patients
Katia Mc Verhamme (Rotterdam, Netherlands), Marie Clyncke, Lies Lahousse, Esme Baan, Guy Brusselle

FeNO testing for asthma diagnosis in primary care
Jayne Longstaff (Portsmouth (Hampshire), United Kingdom), Milan Chauhan, Ruth De Vos, Tom Brown, Mark Mottershead, Hitasha Rupani, Anoop Usmani

Targetted screening of chronic obstructive pulmonary disease in french primary care: the DISCO study
Emilie Andres (Remes, France), Bruno Laviolle, Aurelie Veilsinger, Fabienne Pele, Stéphane Jouveau, Anthony Chapron

Primary care spirometry with a new mobile phone-linked spirometer - a feasibility study.
Piotr Jankowski (Warsaw, Poland), Katarzyna Mycroft, Piotr Korczynski, Lukasz Kolotowski, Mateusz Soliniski, Rafal Krenke, Katarzyna Gorska

Prediction of lung hyperinflation by forced spirometry: Results from COSYCONET
Peter Alter (Marburg, Germany), Jan Orszag, Christina Kellerer, Kathrin Kahlert, Tim Speicher, Henrik Watz, Robert Bals, Tobias Welte, Claus Vogelmeier, Rudolf Jorres

Handling of inhalers by COPD patients in actual clinical practice
Hadeer S. Harb (Beni-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim

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

Predictors for treatment changes in COPD - A Swiss Cohort Study
Lea Kleinsorge (Basel, Switzerland), Giorgia Luthi-Corridori, Nebal Abu Hussein, Pierre O. Bridevaux, Cordula Cadus, Prashant N. Chhajed, Thomas Geiser, Peter Greindelmeier, Ladina Joos Zellweger, Malcolm Kohler, Sabrina Maier, David Miedinger, Michael Tam, Robert Thurnheer, Anne Tscharcher, Pascal Uruwyler, Jorg D. Leuppi

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

Validity of the Nijmegen questionnaire for screening hyperventilation syndrome in primary care
Nathalie Pauwen (Bruxelles, Belgium), Thierry Colot, Françoise Boucharexas, Roger Sergysels, Jeanne Bertuit, Vincent Ninane, Vitalie Faoro

Diagnosis of persistent cough in patients with normal chest X-ray at ACOCU
Ho Lam Nguyen (Hoi Chi 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
PA2702  Association between microbiome and plasma proteome profile in COPD
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Thong Cao, Omer Elneima, Hamish Meauley, Vijay Mistry, Koorebi Haldar, Michael Barer, Leong Ng, Christopher Brightling

PA2703  Mouse tracheal epithelial cells (mTECs) for the study of influenza A infection
Fawaz ALJuhani (Sheffield, United Kingdom), Priyanka Anujan, Lynne Bingle, Colin Bingle

PA2704  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

PA2705  Evaluation of mitochondrial dysfunction of mononuclear leukocytes of smokers and ex-smokers in COPD exacerbation
Eduard Belskikh, Sabina Akhmedova, Natalia Popko, Oleg Uryasev, Valentina Zvyagina, Olga Zhurina, Valery Demikhov

PA2706  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, Victor I. Peinado

PA2707  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 Barberá

PA2708  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

PA2709  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 Paggioro, Paola Nieri, Alessandro Celi

PA2710  Prediction of human orthologs to the Drosophila’s COPD-associated genes.
Erasmia Rouka (Larissa, Greece), Chiissi Hatzoglou, Konstantinos Gourgoulianis, Soririos Zarogiannis

PA2711  LSC - 2020 - Longitudinal effect of smoking cessation on transcriptomics and epigenetics in the airways of COPD patients and asymptomatic controls
Ailen Faiz (Ultimo (NSW), Australia)

PA2712  Biomarkers to predict FEV1 decline in smokers and early-onset COPD.
Carolina Gotera (Madrid, Spain), Anthon Pereira Vega, Tamara García Barrera, José María Marin Trigo, Ciro Casanova, Borja García-Cosío Piqueras, Isabel Mir Viládrich, Ingrid Solanes García, José Luis Gómez Ariza, 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 Frayse, Eduardo Márquez Martín, Margarita Marin Royo, Eva Balcels Vilarnau, Antonia Lluell Casanovas, Cristina Martinez Gonzalez, Juan Bautista Galdiz Iturri, Celia Lacárcel Bautista, Sandra Garcia Garrido, German Peces-Barba

PA2713  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, Claas Peter Heußel, Felix Heerth, Tinne Mertens, Harry Karmouty-Quintana, Ina Koch, Vladimir Benes, Jan Korbel, Andreas Trumpp, David Wyatt, Heiko Stahl, Christoph Plass

PA2714  MicroRNA-26a expression in exhaled breath condensate correlates with pulmonary exacerbation in cystic fibrosis
Zuzanna Stachowiak (Poznan, Poland), Irena Wojys-Banaszak, Katarzyna Jończyk-Potoczka, Joanna Godzik-Spychańska, Kamila Sobczak, Beata Narożna, Anna Breborowicz, Aleksandra Szczepankiewicz

PA2715  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 Ekerlujung, Madeleine Rådinger

PA2716  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
**PA2717**

**Osteopontin and interleukin-6 as biomarkers of interstitial lung disease**

Sara Remuzgo Martinez (Santander, Spain), David Iturbe Fernandez, Victor M. Mora Cuesta, Fernanda Genre, Verónica Pulito-Cueto, Sonia M Fernández Rozas, Leticia Lera-Gómez, Belén Atienza-Mateo, Raquel López-Mejías, Miguel A González-Gay, José M Cifrián

**PA2718**

**Lung function decline in patients with alpha1-antitripsin heterozygosis: preliminary data**

Paolo Gaboardi (Branzi, Italy), Elisa Franceschi, Andrea Cristiano, Andrea Airoldi, Maurizio Rizzi, Dejan Radovanovic, Pierachille Santus

**PA2719**

**PiS and PiS-plus alleles. The importance of phasing gene variants in Alpha-1 Antitrypsin Deficiency**

Beatriz Martinez-Delgado (Madrid, Spain), Nerea Matamala, Gema Gomez-Mariano, Jose Antonio Perez, Beatriz Baladron, Maria Torres-Durán, Francisco Javier Michel, Raquel Saez, Jose Maria Hernandez-Perez, Irene Belmonte, Francisco Rodriguez-Frias, Ignacio Blanco, Pavel Strnad, Sabina Janciauskiene

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**Pre-congress content**

**Session 183 00:00 - 23:59**

E-poster session: Interesting clinical problems for the respiratory physician

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

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

**Chairs:** Fabrizio Luppi (Modena, Italy), Stephanie Everaerts (Leuven, Belgium)

**PA2720**

**Late Breaking Abstract - Burden of disease, diagnostic work-up and management of bronchiectasis in outpatient clinics - a five-year prospective cohort study**

Kjell Erik Julius Håkansson (København N, Denmark), Katrine Fjaellegaard, Andrea Browatzki, Melda Sin, Rafal Wiater, Charlotte Suppli Ulrik

**PA2721**

**Late Breaking Abstract - HRQol and other health related variables of Spanish COPD patients**

Nina Greal (Bellatera, Spain), Maite López, Francesc Orfila, Adrià Almazor, Dolors Miguel, M. Angeles Santos, Esther Ruiz, M.Jesús Vazquez, Guadalupe Ortega, Marta Chueco, Leandra Dominguez, Purificación Jordana-Ferrando

**PA2722**

**Maternal and fetal problems during pregnancy in patients with non-cystic fibrosis bronchiectasis**

Sermin Borekci (Istanbul, Turkey), Bahar Kubat, Gizem Senkardesler, Benan Musellim

**PA2723**

**Identifying inconsistencies in inpatient bronchiectasis management at a large university teaching hospital**

Louise Crowley (Birmingham (England), United Kingdom), Mohammad Mirza, Alice Gray, Farrukh Rauf

**PA2724**

**Prospective evaluation of cardio-metabolic comorbidities in a cohort of patients with non-cystic fibrosis bronchiectasis.**

Valentine Bonnefoy (Paris, France), Laurent Boyer, Etienne Audureau, Laurent Bassinet, Sonia Zebachi, Benoit Douvry, Isabelle Monnet, Gilles Mangiapane, Amel Boudjemaa, Caroline Toublou, Laura Ernande, Bruno Maitre, Frederic Schlemmer

**PA2725**

**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

**PA2726**

**Pulmonary function tests in patients with non-cystic fibrosis bronchiectasis.**

Grazia Mazzoe (Pozzuoli, Italy), Matilde Boccia, Valentina Allocco, Sergio Padula, Giancarlo Scognamiglio, Rosario Salvi, Gennaro Mazzarella, Andrea Bianco, Francesco Saverio Cerqua

**PA2727**

**Monitoring steroid-induced hyperglycaemia in respiratory inpatients**

Gerald Riordan (Forest Lodge, Australia), Belinda Cochrane

**PA2728**

**Selection of blood samples in studies of respiratory diseases related to macrophage migration inhibitory factor**

Hui-Yuan Zhu, Shao-Chun Yan, Jing-Shuo Wu, Zhong Zhang, Xiao-Lin Li, Zheng Liu, Xing Ma, Ya-Hong Lan, Li-Na Zhou, Lin Zhang, Ming-Ming Feng, Yi-Wei Geng, Ai-Xin Zhang, Hui-Feng Wu, Sabina Janciauskiene, Ai-Guo Xu

**PA2729**

**Long-term ventilation in the UK in patients 0-24 years - demographics and quality of care**

Heather Freeth (London, United Kingdom), Kathy Wilkinson, Mark Juniper

**PA2730**

**Impeding progress or a useful test? Impedance studies in paediatric respiratory patients**

Louise Selby (Cambridge (Cambridgeshire), United Kingdom), Robert Heuschkel

**PA2731**

**Impact of a dedicated specialist pleural in-reach service in a large teaching hospital**

Sofian Youssef (Stafford, United Kingdom), Sana Iftikhar, Syed Zaidi, Tess Cusay, Mariet Antony, Shiva Bikiama, Aka Abi Musa Asa’ari, Muhammad B Ganaie, Muhammad Iqbal, Nadeem Maddekar, Shahul Khan, Mohammed Haris
PA2732  How much of dyspnea is psychosocial and how much is biological?  
Latinka Basara (Zagreb, Croatia), Nataša Jokić Begić, Sanja Popović Grle, Tanja Jurin, Miroslav Samaržija

PA2733  Preliminary assessment of A cute Cough Scale  
Peter Siu Pan Cho (London, United Kingdom), Hannah V Fletcher, Jocelin I Hall, Helena Nadolska, Robert Lovegrove, Richard D Turner, Surinder S Birring, Surinder S Birring

PA2734  Chronic breathlessness and activities forgone: a cross-sectional, population prevalence study  
Slavica Kochovska (Sydney, Australia), Sungwon Chang, Deidre Morgan, Diana Ferreira, Manraaj Sidhu, Rayan Saleh Moussa, Miriam Johnson, Magnus Ekström, David Currow

PA2735  Perspective on the etiology of catamenial pneumothorax  
Takaumi Kabuto (Kobe, Japan), Hiroshi Hamakawa, Takashi Indo, Yutaka Shishido, Akihiro Aoyama, Shigeo Hara, Yutaka Takahashi

PA2736  First description of De Novo Inflammatory Bowel Disease (IBD) in two adolescent patients after lung transplant (LTX)  
Doxa Kotzia (London, United Kingdom, Fevronia Kiparissi, Helen Spencer

PA2737  The Role of Barium Swallow in Determining the Aetiology of Bronchiectasis. A Retrospective Review.  
Christina D. Campbell (Dublin 6, Ireland), Robert M. Rutherford

PA2738  Correlation between pleural fluid and serum C-reactive protein in patients with pleural effusion due to different etiologies  
Yana Kogan (HAIFA, Israel), Edmond Sabo, Majed Odeh

Pre-congress content  Session 184  00:00 - 23:59

E-poster session: Increase in health care utilisation of modern treatments compared with the increase in effectiveness

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

Method(s):  General respiratory patient care   Public health   Respiratory intensive care   Epidemiology   Palliative care   Pulmonary rehabilitation

Chairs:  Robab Breyer-Kohansal (Wien, Austria), Emiel F. M. Wouters (Maastricht, Netherlands)

PA2739  Late Breaking Abstract - Consultation difficulties and service shortages of medicinal products used by home ventilated patients have been already detected during the first two weeks of social distancing and pandemic’s quarantine  
Stephan Josef Schließmann (Seligenstadt, Germany), Stefanie Rödig

PA2740  Healthcare utilisation in chronic cough  
Peter Siu Pan Cho (London, United Kingdom), James Shearer, Anna Simpson, Sanchika Campbell, Mark W Pennington, Surinder S Birring, Surinder S Birring

Pre-congress content  Session 185  00:00 - 23:59

E-poster session: Experimental and laboratory studies in intensive care unit medicine

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)

PA2741  Late Breaking Abstract - Enhanced expression of IL-1ß in later stage of influenza A virus infection is independent of NLRP3 in vitro  
Yunfeng Shi (, China), Xiaohan Shi, Jingjing Liang, Jinmei Luo, Junhui Ba, Benquan Wu

PA2742  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

PA2743  Uni- and bilateral diaphragm paralysis: an animal model  
Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Peter Frykholm

PA2744  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
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**Pre-congress content**

**E-poster session: Cystic fibrosis**

**Disease(s):** Airway diseases

**Method(s):** 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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**PA2759**  Temporal trends in costs of care for cystic fibrosis in France  
Erin Van Ganse (Lyon, France), Faustine Dalon, Lydie Lemonnier, Clémence Dehillotte, Quitterie Reynaud, Marjorie Bérard, Déborah Walther, Manon Belhassen, Isabelle Durieu

**PA2760**  Screening of Depression and Anxiety Disorders in Cystic Fibrosis Patients and Their Parents  
Pinar Ergenekon (Istanbul, Turkey), Cansu Yilmaz Yegit, Hakan Mursaloglu, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Bulent Karadag

**PA2761**  Should the D1152H variant be included in cystic fibrosis newborn screening programmes?  
Carwyn Dafydd (Cardiff, United Kingdom), Kevin W. Southern, Stuart Moat, Iolo J.M. Doull
PA2762 Cystic fibrosis newborn screening for R117H in England
Carwyn Daftydd (Cardiff, United Kingdom), Stuart Moat, Kevin W. Southern, Iolo J.M. Doull

PA2763 Description of new CFTR gene’s mutations in patients of Russia
Yulia Gorinova (Moscow, Russian Federation), Kirill Savostyanov, Olga Simonova, Stanislav Krasovskyi

PA2764 First identified “severe” mutations and extended rearrangements in the CFTR gene in Russian cystic fibrosis patients
Elena Kondratyeva (Moscow, Russian Federation), Nika Petrova, Stanislav Krasovsky, Aysa Zodbinova, Yuliya Melyanovskaya, Marina Starinova, Alexander Chernyak, Rena Zinchenko, Sergey Kutsev

PA2765 CFTR mutations unidentified in CFTR2 database and their phenotypic characteristics: Data from cystic fibrosis registry of Turkey

PA2766 Cystic Fibrosis: Clinical profile of 10 patients with R334W mutation compared to ?F508 homozigoty
Sara Carla Moura Cabral (Matosinhos, Portugal), João Pedro Oliveira Pereira, Bruno Gil Gonçalves, Fernanda Gamboa

PA2767 Clinical presentation in CF patients with large deletions
Guergana Petrova (Sofia, Bulgaria), Nadezhda Yaneva, Malgorzata Libik, Dimitrinka Miteva, Boriana Gospodinova, Margarita Nikolova, Penka Perenovska, Milan Macek Jr, Alexey Savov

PA2768 Spectrum of CFTR mutations in Republic of North Macedonia
Stojka Fustik (Skopje, North Macedonia), Dijana Plaseska Karanfilvca, Marija Terzikj, Lidija Spirevska, Ana Stamatoa

PA2769 Bioenergetics of breathing in children with cystic fibrosis: a thermodynamic study
Jale Çatak (Istanbul, Turkey), Elif Develi, Serkan Bayram

PA2770 Dehydration and electrolyte imbalance: a common presenting manifestation of cystic fibrosis in Cyprus
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Andreas Matthaiou, Panayiotis Kouis, Vassos Neocleous, Tonia Adamidi, Phivos Ioannou, Pavlos Fanis, Constantina Costi, Andreas Georgiou, Leonidas A. Phylactou, Panayiotis Yiallouros

PA2771 Midregional proadrenomedullin in patients with cystic fibrosis lung disease: a pilot study
Vassiliki Shmarin (Moscow, Russian Federation), Yuliya Darchiladze, Tatiana Kuznetsova, Stanislav Krasovsky, Sergey Semykin, Maria Usacheva, Galina Shmarina, Vladimir Alioshkin

PA2772 Low-dose chest CT for bone mineral density in pediatric patients with cystic fibrosis
Leonardo Pinto, Rubens Andrade, Gabriele Forte, Bruno Hochhegger

PA2773 Midregional proadrenomedullin in patients with cystic fibrosis lung disease: a pilot study
Vassiliki Shmarin (Moscow, Russian Federation), Yuliya Darchiladze, Tatiana Kuznetsova, Stanislav Krasovsky, Sergey Semykin, Maria Usacheva, Galina Shmarina, Vladimir Alioshkin

PA2774 Impact of flash glucose monitoring system in cystic Fibrosis related diabetes
Safin Arafat Rahman (ESSEX, United Kingdom), Jacqueline Medermott2, Amanda Adler, Helen Barker, Christopher Johnson, Dorothy Grogono, Uta Hill, Charles Haworth

PA2775 Expression and function of murine WFDC2 in the respiratory tract.
Lynne Bingle (Sheffield (South Yorkshire), United Kingdom), Hannah Armes, Colin Bingle

PA2776 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

Ears: 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, Physiology, 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 Chatzivasileoglou (Nikaia (Piraeus), Greece), Stavros Dimopoulos, Vasiliki Raidou, Konstantina Sakki, Dimitrios Elaiopoulos, Despoina Markantonaki, Kirillos Papadopoulos, Ioannis Kriaras, Aiakterini Marathia, Seraphim 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

Custom-made phantoms for thoracic ultrasound diagnostic and therapeutic applications in clinical practice 
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 Benet, Juan Bautista Ruiz-Aizola, 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

Vertical Artifacts in Lung Ultrasonography 
Andrea Smargiassi (Roma (RM), Italy), Gino Soldati, Libertario Demi, Riccardo Incighino

Clinical applications of contrast-enhanced thoracic ultrasound (CTEUS) compared to standard reference tests: a systematic review 
Niels Jacobsen (Odense M, Denmark), Lars Konge, Pia Iben Pietersen, Christian Pállsson Nolsøe, Ole Graumann, Christian B. Laursen

Utility of thoracic ultrasound for detecting malignant pleural effusion: a systematic review and meta-analysis 
Sayumi Nozaki (Chiba-ken, Japan), Akihiro Shirosita, Yu Tanaka, Yan Luo, Yuki Kataoka, Kei Nakashima

Diaphragm ultrasound examination before and after fluid drainage in patients with malignant pleural effusion 
Maged Hassan (Alexandria, Egypt), Olalla Castro-Anon, Radhika Banka, Rachel Mercer, Eihab Bedawi, Najib Rahman

Sonographic evaluation of the diaphragm as an educational reinforcement during adaptation to the Nimv 
Angelo Longoni (Mariano Comense (CO), Italy), Paolo Pozzi, Antonio Paddeu

Diagnostic yield and safety of image-guided pleural biopsy: a systematic review and meta-analysis 
Federico Mei (Ancona (AN), Italy), Martina Bonifazi, Matteo Rota, Lina Zuccatosta, Eihab O Bedawi, David Mccracken, Stefano Gasparini, Najib M Rahman

Ultrasonic elastography guided transthoracic pleural biopsy: a prospective pilot study 
Gang Hou (Shenyang (Liaoning), China), Yan Yin, Xian-Wei Ye, Jiang-Wei Ma, Guo-Wu Zhou, Bin Jiang

Study of ultrasound guided transthoracic fine needle aspiration and core needle biopsy in the diagnosis of peripheral pulmonary lesions 
Ragia Samir Sharshar (Tanta, Egypt), Wafaa El-Shimy, Amr Elbadry, Sara Elganzory

Usefulness of cytologic examination of bronchial washing samples in endobronchial ultrasound 
Susana Alvarez Lopez (Los Molinos, Spain), Luis Fernando Giraldo Cadavid, Almudena Batanero Rodriguez, Javier Alfayate Sánchez, Francisco De Borja Martinez Muñiz, Iker Fernández Navamuel Basozabal, Javier Flandes Aldeyturriaga

Treasure hunt in the mediastinum lesions or lung lesions by EBUS-TBNA or EUS-B-FNA: A road map for the best route 
Wen-Chien Cheng (Taichung, Taiwan), Meng-Fang Shen, Chia-Hung Chen, Chih-Yen Tu, Biing-Ru Wu, Wei-Chih Liao, Wei-Chun Chen, Chih-Yu Chen

Diagnostic utility of EBUS-TBNA according to lymph node stations in sarcoidosis 
Hongsik Yoo (Seoul, Republic of Korea), Byung Woo Jhun, Byeong-Ho Jeong, Kyungjiong Lee, Sang-Won Um, O Jung Kwon, Man Pyo Chung
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)

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**PA2796**

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

**PA2797**

Epidemiology of non-tuberculous mycobacterial infection in five areas in northern Spain

Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Javier Ugedo Urruela, Lander Altube, Julia Garcia Fuertes, Jose Andres Molina Espejo, M. Victoria Leal Arranz

**PA2798**

Treatment outcomes of non-tuberculous mycobacterial (NTM) pulmonary disease. Multicenter study

Beatriz Gonzalez Quero (Bilbao, Spain), Eva Tabernero Huguet, Lander Altube, Javier Ugedo, Victoria Leal, Jone Solorzano Santobeña, Lorea Martinez Indart, Julia Garcia Fuertes

**PA2799**

Differential diagnosis of destructive pulmonary tuberculosis in real clinical practice

Natalya Karpina (Moscow, Russian Federation), Ruslan Asanov, Irina Shabalina, Ekaterina Shishkina, Atadzhan Ergeshov

**PA2800**

Phenotyping and treatment of endobronchial Tuberculosis: A Case Series

Shubham Sharma (Jaipur (Rajasthan), India), Aloke Gopal Ghoshal, Shyam Krishnan, Praveen Kumar Shahi, Raja Dhar

**PA2801**

Research of apoptosis of bronchial epithelial cells in multidrug-resistant tuberculosis

Yeremenchuk Inga (Chernivtsi, Ukraine), Todoriko Lіlіia, Semianiv Ihor

**PA2802**

From environmental bacteria to obligate pathogen: the study of adaptations enhancing the persistence of tuberculosis bacilli

Aideen C. Allen (Toulouse, France), Vladimir Malaga, Catherine Astarie-Dequeker, Ali Hassan, Céline Berrone, Flavie Moreau, Philip Supply, Lorea Martinez Indart, Julia Garcia Fuertes

**PA2803**

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

**PA2804**

Characteristics of smear-positive pulmonary tuberculosis patients with delayed diagnosis

Chie Yamamoto (Fukuchiyama Kyoto, Japan), Atsushi Kawashima, Ryo Sawada, Shun Futamura

**PA2805**

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, Natalia Sterzhanova, Alex Apt

**PA2806**

Different antimycobacterial activity of macrophages in various lung tuberculosis lesions of patients

Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva, Diana Vakhrsueva, Sergey Skornyakov

**PA2807**

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, Maximilian G. Gutierrez

**PA2808**

Non-cytokine activation immunoprofiling to differentiate treatment status in latent tuberculosis infection

Patricio Escalante (Rochester, United States of America), Virginia Van Keulen, Courtney Erskine, Tobias Peikert

**PA2809**

Screening for TB infection in children using skin tests with tuberculin and recombinant allergen (CFP-10-ESAT-6)

Ludmila Slogotskaya (Moscow, Russian Federation), Ludmila Slogotskaya, Elena Bogorodskaya, Mihail Sinitsyn, Dmitriy Kudlay, Luisa Shamuratova, Tatiana Sevostyanova

**PA2810**

New in vitro model of Mycobacterium tuberculosis dormancy

Yana Batyrshina (Novosibirsk, Russian Federation), Yakov Schwartz

**PA2811**

Tuberculosis contacts study in Spain: preliminary results

Juan Diego Alvarez Mavarez (Aviles, Spain), Jose Antonio Guillon Blanco, Teresa Rodrigo Sanz, Manuel Angel Villanueva Montes, Fernando Alvarez Navascues, Juan Rodriguez Lopez, Eva Tabernero Huguet, Isabel Lopez Aranaga, Josefin Sabria Mestres, Luis Anibarro Garcia, Angel Dominguez Castellano, Anton Penas Truque, Isabel Mir Viladrich, Silvia Dorrorsoro Quintana, Lander Altube Urrangoetxea, Juan Francisco Medina Galardo, Maria Somoza Gonzalez, Maria Otero Santiago, Jose Maria Garcia Garcia
Clinical and functional features of pulmonary tuberculosis in young patients depending on the respiratory muscles strength
Elena Kokorina (Vsevolozhsk, Russian Federation), Sofia Kovaleva, Larisa Kiriukhina, Nina Denisova, Kirill Bolotov, Natalia Nefedova, Lyudmila Archakova

Efficacy of Russian immunologic skin test recombinant allergen Diaskintest - ten years (meta-analysis data)
Anna Starshinova (St. Petersburg, Russian Federation), Dmitriy Kudliy, Irina Dovgaluk

Latent tuberculosis assessment before biological agent use
Azad Güler (Eskişehir, Turkey), Hüseyin Yildirim, Funus Alatas, Sinan Erginel, Abdullah Kayıkcı, Tunahan Yüce

Pre-congress content
Session 189  00:00 - 23:59

E-poster session: Neonatal and paediatric intensive care: diagnosis, management and outcomes

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

Method(s): General respiratory patient care  Pulmonary function testing  Imaging  Surgery  Epidemiology  Respiratory intensive care  Palliative care  Cell and molecular biology

Chairs: Emma Williams (London, United Kingdom), Sotirios Fouzas (Patras, Greece)

Late Breaking Abstract - Fetal thoracic circumference in mid-pregnancy and infant lung function
Hrein Katrin Gudmundsdottir (Oslo, Norway), Katarina Hilde, Karen Eline Stensby Bains, Martin Färdig, Kai-Håkon Carlsen, Guttorm Haugen, Marissa Leblanc, Live Solveig Nordhagen, Björn Nordlund, Eva Maria Rehighbinder, Håvard O. Skjerve, Anne Cathrine Staff, Rivas Vettukattil, Karin C. Lødrup Carlsen

The preterm piglet as an animal model for bronchopulmonary dysplasia: preliminary findings
Kristen Vanhaeverbeke (Berchem, Belgium), Annelies Van Eyck, Kristine Holgersen, Jacky De Leeuw, Miriam Ayuso, Isabel Pintelon, Chris Van Ginneken, Benedicte De Winter, Kim Van Hooorenbeek, Stijn Verhulst, Thomas Thymann, Per Sangild, Antonius Mulder

Multiple breath washout measurement in patients with CDH at school age compared to Chest CT score and spirometry.
Marlies Dirickx (Onze-lieve-vrouw-waver, Belgium), Anne Debeer, Mieke Boon, Francois Vermeulen, Marijke Proesmans

Effective concentration of oxygen delivered to infants via nasal cannula: back to the model
Sotirios Fouzas (Patras, Greece), Aris Bertzouanis, Gabriel Dimitriou

Can chest radiograph (CXR) predict diagnosis and intervention of congenital thoracic malformations?
Lena Thia (Cardiff, United Kingdom), Laura Price, Emily King, Elisabeth Parks, Rhian Isaac, Iolo Doull, Julian Forton, Lena Thia

Closed loop automated oxygen control in optimisation of mechanical ventilation in preterm infants
HEMANT AMBULKAR (London, United Kingdom), Sarah Sturrock, Samantha Sweeney, Nadja Bednarczuk, Emma Williams, Theodore Dassios, Anne Greenough

Feasibility of less invasive surfactant administration (LISA) in the delivery suite
HEMANT AMBULKAR (London, United Kingdom), Emma Williams, Ann Hickey, Ravindra Bhat, Theodore Dassios, Anne Greenough

Impact of oral clonidine on duration of opioid and benzodiazepine use in mechanically ventilated children: a randomized, double-blind, placebo-controlled study
Bahador Bagheri (Tehran, Islamic Republic of Iran), Sara Salarian, Bahar Taherkhanchi

The effect of IGF-1 therapy on lung development in a preterm piglet model
Kristen Vanhaeverbeke (Berchem, Belgium), Annelyes Van Eyck, Kristine Holgersen, Jacky De Leeuw, Miriam Ayuso, Isabel Pintelon, Chris Van Ginneken, Benedicte De Winter, Kim Van Hooorenbeek, 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 prospective 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 Dellacà, 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
**PA2827** How children on long term ventilation die
Anna Mulholland (Liverpool, United Kingdom), Clare Halfhide, Andrew Selby

**PA2828** Mechanical ventilation management during high-frequency oscillatory ventilation for premature infants with severe hypoxic respiratory failure
Shih Ming Chu (Taiwan), Ming Horng Tsai, Jen Fu Hsu

**PA2829** 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, Sabrinne Suelen Santos Sampaio, Silvana Alves Pereira

**PA2830** 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

**PA2831** 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

**PA2832** Clinical Spectrum of Neonatal Respiratory Morbidity in Developing Country
Nisha Keshary Bhatta (Dharan, Nepal), Sandeep Chauhan, Jyoti Agrawal, Shanker Yadav, Lok Raj Sah, Rupa Rajbhandarisingh

**PA2833** 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)

**PA2834** Molecular testing with Next Generation Sequencing on Bronchial Lavage from patients with suspect lung cancer
Luca Morandi (Ferrara (FE), Italy), Alberto Papi, Francesca Torsani, Roberta Roncarati, Laura Lupini, Massimo Negrini, Gian Luca Casoni

**PA2835** Bronchial brushing are still useful in the diagnosis of peripheral lesions?
Elena Torricelli (Firenze (FI), Italy), Giulia Innocenti Bruni, Cecilia Marmai, Nirvana Stanflin

**PA2836** 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

**PA2837** Bronchoalveolar lavage: are we following ATS guidance?
Ivor Allon (London, United Kingdom), Stephen Joseph, Rahul Mogal, Rama Vancheeswaran

**PA2838** 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

**PA2839** Evaluation of regional pulmonary function using a bronchoscopic capnometer in patients with COPD
Shin Matsuzawa, Hiroki Nishine, Hirotaka Kida, Teruomi Miyazawa, Takeo Inoue, Masamichi Mineshita

**PA2840** Impairment of pulmonary function as a main risk factor for ineffective endobronchial valve placement in patients with chronic cavitary tuberculosis
Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Olga Lovacheva, Irina Shabalina, Tavetik Bagdasaryan, Natalya Chernykh, Elena Krasnikova, Olga Gordeeva, Natalya Karpina

**PA2841** Hemorrhagic Endobronchial metastasis of renal cell carcinoma
Marcos Oliveira (Aguada de Cima, Portugal), Jorge Dionisio, Ambrus Szantho, Duro Da Costa

**PA2842** Impact of ROSE on the diagnostic yield of fluoroscopy guided bronchoscopy in diagnosing peripheral pulmonary lesions
Fausto Leoncini (Montespertoli (FI), Italy), Guido Levi, Mauro Novali, Luca Boni, Federico Quadri, Valentina Luzzi, Claudio Tantucci, Michela Bezzi
The role of bronchoscopy in the differential diagnosis of pulmonary lesions in end-stage renal disease patients
Olga Gordeeva (Moscow, Russian Federation), Natalia Karpina, Ilya Sivokozov, Yulia Turovtceva, Irina Shabalina, Dmitry Dedushkin

Spirometry as an integral part of benign tracheal stenosis management
Josué Pinto (Porto, Portugal), Bruno Chambel, Cláudia Freitas, Mariana Conceição, António Morais, Gabriela Fernandes, Adriana Magalhães, Hélder Novais Bastos

Different Processing method in each fractionation of bronchoalveolar lavage fluid indicated different diagnosis
Yuko Waseda (Yoshida-gun, Japan), Toshihiro Takeda, Masayuki Sato, Akikazu Shimada, Tomoaki Sonoda, Makiko Yamaguchi, Chisato Honjo, Maiko Kadowaki, Hiroko Shigemi, Yukihiro Umeda, Masaki Anzai, Keigo Saeki, Satoshi Watanabe, Kazuo Kasahara, Tamotsu Ishizuka

A visual estimate for hemorrhage during flexible bronchoscopy: A registered, cross-sectional study
Wendy Laijen (Leeuwarden, Netherlands), Kim De Jong, Jolanda Kuijvenhoven, Wouter Van Geffen

Potential of using probe-based confocal laser endomicroscopy (pCLE) in differential diagnosis of pulmonary TB and sarcoidosis.
Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Irina Tabanakova, Sultan Gasanmagomedov, Gleb Beliaev, Tatiana Novickaya, Piotr Yablonskii

Use of an Extended Working Channel in high-risk Transbronchial Biopsy- A simple innovation to enhance safety
Hariprasad Kalpakam, Vinayak Mangal, Pavankumar Biraris, Rajani Bhat, Pooja Bajaj, Rohan Aurangabadwala, Ravindra Mehta, Sameer Bansal

Endobronchial biopsy: a comparative study to evaluate alligator and cup forceps at Institute of Respiratory diseases, SMS medical college, Jai pur.
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Rahul Kathuria, Manish Katiyar, Anupam Samanta, Prashant Bendre, Amit Garg

To compare the effect of Dexmedetomidine as a premedication during flexible bronchoscopy with Tramadol and paracetamol- open label randomised control trial
Kashif Ali Khan (Manchester, United Kingdom), Nadira Narine, Simon Bailey, Miles Holbrook, David Shelton, Durgesh Rana

Concordance between Rapid On-Site Cytology Evaluation (ROSE) and Final diagnosis in patients undergoing Endobronchial Ultrasound- guided Transbronchial Needle Aspiration (EBUS-TBNA)
Kashif Ali Khan (Manchester, United Kingdom), Nadira Narine, Simon Bailey, Miles Holbrook, David Shelton, Durgesh Rana

HOW RAPID CAN "RAPID ON-SITE EVALUATION (ROSE)" BE - OUR EXPERIENCE WITH TOLUIDINE BLUE STAINING - CONCORDANCE BETWEEN ROSE AND FINAL CYTOLOGICAL DIAGNOSIS ON EBUS TBNA SAMPLES
Umang C. Shah (Vadodara (Gujarat), India), Arpan C. Shah, Chandrakant M. Shah, Udayan Kachchhi, Hetal V. Shah, Palak U. Shah

Pre-congress content

Session 191 00:00 - 23:59

E-poster session: Endobronchial ultrasound: from rookie to pro

Methods: Endoscopy and interventional pulmonology Surgery Imaging Respiratory intensive care General respiratory patient care

Chairs: Karan Madan (New Delhi (Delhi), India), Chair to be confirmed

Late Breaking Abstract - Effect of endobronchial coil therapy-a lung volume reduction therapy-on hemorheological and oxidative parameters
Nazli Cetin (Denizli, Turkey), Erhan Ugurlu, Emine Kilic Toprak, Nilufer Yigit, Özgen Kilic Erkek, Hilmeye Pakyurek, Hande Senol, Gökseł Altinski, Melih Bor Küçükatay

The utility of elastography visual features to predict nodal malignancy during EBUS-TBNA
Ben Teng (Manchester, United Kingdom), Kashif Khan, Haider Al-Najjar

Feasibility and patient satisfaction with transnasal diagnostic EUS-b under conscious sedation
Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Michele De Santis, Paulo Matos, Lourdes Barradas

Interobserver agreement on EBUS and EUS-B cytological specimens in patients with sarcoidosis
Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laurence Crombag, Sybren Meijer, Alessandra Cancellieri, Jan Von Der Thüsen, Teodora Radonic, Rieneke Britslof, Rocco Trisolini, Jouke Annema
Evaluating the role of endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) in the diagnosis of mediastinal metastasis from extrapulmonary malignancies
João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal), Michele De Santis, Maria Inês Matias, Sofia Rodrigues Sousa, Paulo Matos, Ana Luisa Fonseca, Louludes Barradas

Periferic located masses and the role of EBUS-TBNA and EUS-B-FNA
Eritjan Tashi (Fier, Albania), Alma Teferici, Fahri Kokici, Perlat Kapisyzi

What is the added diagnostic yield of mediastinoscopy following nondiagnostic EBUS-TBNA thoracic lymph node sampling?
Abdulrahman Hasan Almadani (Dublin 8, Ireland), Mohammad Aladaileh, Brian McCullagh, Donna Eaton, Karen Redmond, Dermot O'Callaghan

Diagnosis of mediastinal adenopathies in patients with extrathoracic tumors: role of EBUS-TBNA
Francisco Guillermo Puig Sanchez (sevilla, Spain), Maria Barca Hernando, Lucas Román Rodríguez, Eduardo Márquez Martin, Beatriz Romero Romero, José Martin Juan

Utility of linear endobronchial ultrasound for diagnosis and mutational analysis in centrally located intrapulmonary tumours
Alison Stockbridge (Birmingham, United Kingdom), Muhammad Majid, Rosamond Nicholson, Muhammad Tufail, R K Panchal

EBUS-TBNA FOR HILIO MEDIASTINAL LYMPH NODES DIAGNOSIS IN NON-PULMONARY NEOPLASMS
Carolina España Dominguez (Cádiz, Spain), Maria Pérez Morales, Maria Morales González, Alfonso Marín Andreu, Cayo García Polo

Thoracic endosonography (EBUS/EUS-b). A single center retrospective analysis.
Serafeim Chrysikos (Athens, Greece), Theodoros Karampitsakos, Maria Anyfanti, Ourania Papaioannou, Georgios Hills, Katerina Dimakou

Can the convex probe endobronchial ultrasound-assisted transbronchial needle method establish the diagnosis of anthracosis in patients with enlarged mediastinal lymph nodes?
Gülçehre Oğuztürk (Istanbul, Turkey), Ekrem Cengiz Seyhan, Halit Cinarka, Hasan Akin, Mehmet Atilla Uysal

Role of EBUS-TBNA in the study of PD-L1 expression in patients with non-small cell lung cancer (NSCLC)
Francisco Guillermo Puig Sanchez (sevilla, Spain), Lucas Román Rodriguez, Maria Barca Hernando, Eduardo Márquez Martin, Beatriz Romero Romero, José Martin Juan

Endosonography in diagnosis of mediastinal lymphoma - is it too weak to be used?
Ilya Sivokozov (Moscow, Russian Federation), Irina Shabalina, Dmitry Dedushkin, Galina Evgushenko, Yuri Berezovsky, Natalya Makaryants, Natalya Karpina

Utility & safety of endoscopic ultrasound guided sampling of mediastinal nodes or lesions with bronchoscope(EUSB).
Abhijit Vinod Ahuja (Mumbai (Maharashtra), India), Ankan Banerjee, Dhammdeep Kadam, Sagar Raiya, Jeenam Shah, Rajiv Goyal

Comparative efficacy of radial endobronchial ultrasound versus virtual bronchoscopy in patients with peripheral pulmonary lesions
Yana Chesalina (Moscow, Russian Federation), Dmitry Dedushkin, Irina Shabalina, Yuri Berezovsky, Galina Evgushenko, Natalya Karpina, Ilya Sivokozov

Role of radial EBUS cryobiopsy in peripheral pulmonary lesions: a case series
Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Swapnil Bakamwar, Parimal Deshpande

EUS-B-FNA enhances the diagnostic yield of EBUS bronchoscopy examination for intrathoracic lesions
Masahide Oki (Nagoya, Japan), Hideo Saka, Yoshihiro Kogure, Hideyuki Niwa, Fumie Shigematsu, Akane Ishida, Atsushi Torii, Chiyoe Kigtagawa

Optoelectronic plethysmography: reference values for breathing pattern
Liliane Mendes (Belo Horizonte (MG), Brazil), Raquel Britto, Guilherme Fregonezi, Vanessa Resqueti, Marina Fagundes, Armile Dornelas, Renata De Souza, Daniella Brandão, Verônica Parreira
PA2872 Thoracic/abdominal kinematics of children and adolescents with asthma before and after physical effort
Evelim Gomes (São Paulo (SP), Brazil), Carla Cavassini, Maisi David, Josiane Luiz, Dirceu Costa

PA2873 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, Rafaelela Xavier, Regina Carvalho-Pinto, Rafael Stelmach, Celso Carvalho

PA2874 Decision tree models as a classifier of endothelial function based on strength, pulmonary and cardiac function in COPD: Preliminary analysis.
Renata Mendes (Sao Carlos (SP), Brazil), Nathany Souza Schafauser, Jorge Manuel Oliveira Henriques, Erika Zavaglia Kabbach, Alessandro Domingues Heubel, Bruna Shura Vidal De Oliveira, Valéria Amorim Pires Di Lorenzo, Meliza Goi Roscante, Audrey Borghi-Silva

PA2875 Dynamic Balance, Exercise Capacity and Muscle Oxygenation in Children with Non Cystic Fibrosis Bronchiectasis
Jan Dik (Ankara, Turkey), Haluk Tekerlek, Melda Saglam, Naciye Vardar Yaglı, Ebru Calık Kutukcu, Deniz İnal Ince, Deniz Dogru Ersöz

PA2876 Clinical characteristics of COPD Phenotypes
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Machado, Sara Souto-Miranda, Crsitina Jácome, Joana Cruz, Ana Oliveira, Vera Enes, Vera Afreixo, Vitória Martins, Lilía Andrade, Carla Valente, Diva Ferreira, Paula Simão, Ana Tavares

PA2877 The relationship of walking speed with clinical parameters in patients with non-cystic fibrosis bronchiectasis
Buse Ozcan Kahraman (Izmir, Turkey), Melike Mese, Sema Savci, Aylin Tanriverdi, Damla Gündüz, Can Sevinc

PA2878 The prevalence of poor fitness in children in a regional multidisciplinary severe asthma clinic, UK
Claire Hepworth (Liverpool (Merseyside), United Kingdom), Neil Mingaud, Sioned Davies, Philip Lawrence, Andrew Lilley, Lucy Gait, Lynsey Brown, Victoria Worrall, Christopher Grime, Rebecca Thursfield, Ian Sinha, Mg Semple

PA2879 Implementation of immersive virtual reality influences outcomes of exercise test
Sebastian Rutkowski (Opole, Poland), Patryk Szary, Anna Rutkowska, Jerzy Sacha, Richard Casaburi

PA2880 Could step and stepper tests be valid to assess the exercise and functional capacities in patients with COPD? Results from a systematic review.
Rui Vilarinho (Porto, Portugal), Cátia Caneiras, Antonio Mesquita Montes

PA2881 COMPARISON OF PHYSICAL PERFORMANCE AND SPIROMETRY VALUES ACCORDING TO FALL RISK OF COPD SUBJECTS
Beyza Nur Karadüz (Ankara, Turkey), Yasemin Cirak, Ebru Calık-Kutukcu, Gul Deniz Yılmaz-Yelvar, Nurgül Durustkan-Elbasi

PA2882 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 Sampaio

PA2883 Respiratory muscle function in patients with gastroesophageal reflux disease with extraesophageal symptoms
Katerina Neumannova (Olomouc, Czech Republic), Jaromir Zatloukal, Pavla Horova, Tamara Michalickova, Martin Dvoracek

PA2884 Evaluation of respiratory muscle strength and functional capacity in patients with different oncological surgery
Fatma Rümeysa Kasap (Ankara, Turkey), Naciye Vardar Yağlı, Melda Sağlam, Deniz İnal Ince, Derya Karakoç, Erhan Hamalolu

PA2885 Hand grip strength is associated with maximal inspiratory pressure in patients with chronic obstructive pulmonary disease
Akira Tamaki (Kobe, Japan), Mio Koizumi, Hiroshi Tamura

PA2886 A comparison of respiratory functions, peripheral muscle strength and postural impairments between patients with different severity of obstructive sleep apnea syndrome (OSAS)
Nurel Ertürk (Trabzon, Turkey), Ebru Calık-Kutukcu, Hulya Arikan, Hakan Caliskan, Deniz İnal-Ince, Sema Savci, Melda Sağlam, Naciye Vardar-Yağlı, Hikmet Firat, Melike Yuce-Ege, Sadik Ardic

PA2887 Comparison of pulmonary functions and quality of life in patients with parkinson’s disease and multiple system atrophy
Begüm Unlu (Istanbul, Turkey), Semra Oguz, Bayram Kapsigay, Eren Timurtas, Mine Gülden Polat, Hülya Apaydin

PA2888 Upper airway function in impair trunk motor control multiple sclerosis patients: an observational study.
Esther Prados Román (Granada, Spain), Alejandro Heredia Ciuró, María Granados Santiago, Janet Rodriguez Torres, Irene Cabrera Martos, Marie Carmen Valenza
Exercise-induced bronchoconstriction in marathon runners is associated with higher nasal neutrophilic infiltrate after marathon
Juliana Santos (Salvador (BA), Brazil), André Bachi, Luiz Luna Junior, Roberta Foster, Ana Sierra, Marino Benetti, José Araujo, Nabil Ghorayeb, Maria Kiss, Dominique Bullens, Rodolfo Vieira, Mauro Vaisberg

Marathon Running Modulates Lung Mechanics and Pulmonary and Systemic Immune Response in Amateur Athletes
Thiago Alves (São José dos Campos, Brazil), Ana P Rennó-Sierra, Maysa A. R. Brandão-Rangel, Renilson Moraes-Ferreira, Ana Silva-Reis, Tiago Alencar-Lima, Rodolfo P. Vieira

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)

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

Oligomeric proanthocyanidin attenuated asthma severity by rebalanced epithelial phenotypes and airway microenvironment
Xiaoning Zeng (Nanjing, China), Yihang Gu, Xiuhua Zhong, Hao Gu, Yuan Ma

Precision-cut lung slices as an in vitro model for testing of novel therapeutic agents
Daniela Belamaric (Zagreb, Croatia), Matea Cedilak, Vedrana Radovanović, Mihailo Banjanac, Lidija Pribolsan, Vesna Erakovic Haber, Martina Bosnar

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
**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), Chair to be confirmed

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**PA2907**  
Jonathan Noble (Bristol, United Kingdom), Helen McDill, Clemency Clarke, Eleanor Barton, Martin Plummeridge, Anna Bibby, Andrew Low

**Title:** Evaluating the outcomes of patients with haemoptysis referred to two rapid-access lung cancer clinics in the UK

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**PA2908**  
Eleanor Barton (Bristol, United Kingdom), Helen McDill, Jonathan Noble, Martin Plummeridge, Anna Bibby

**Title:** Rationalising the lung cancer diagnostic pathway with CT triage; a single centre UK experience.

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**PA2909**  
Helen McDill (Bristol [Avon], United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Anna Bibby, Andrew Low

**Title:** The role of a dedicated chest X-ray reporting tool in the lung cancer diagnostic pathway

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**PA2910**  
Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn

**Title:** The travel burden for patients diagnosed with lung cancer at a District General Hospital in South East London.

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**PA2911**  
Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn

**Title:** Route of referral correlates to lung cancer stage and with outcomes at a District General Hospital in South East London.

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**PA2912**  
Adnan Amir (Hull, United Kingdom), Alison Spray, Nicola Haley, Kathryn Gracie, Alison Gill

**Title:** RAPID lung cancer diagnostic and care pathway from referral to treatment

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**PA2913**  
Lauren Fox (Southampton, United Kingdom), David Lodge, Kate Bentley, Laura Wiffen, Clare Bradley, Mohamed Ibrahim, Alexander Hicks

**Title:** Transforming the Portsmouth Hospitals Lung Cancer Pathway (LCP)

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**PA2914**  
Fausto Leoncini (Montespertoli [FI], Italy), Guido Levi, Mauro Novali, Federico Quadri, Elsa Martinelli, Michela Bezzi

**Title:** Does a MultiDisciplinary Team approach affect time to treatment in NSCLC?

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**PA2915**  
Helen McDill (Bristol [Avon], United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Andrew Low, Anna Bibby

**Title:** Factors associated with lung cancer in patients referred to a fast-track clinic

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**PA2916**  
A. K. H. Abdmouleh Khouloud (Sfax, Tunisia), Ayadi Hajer, Kallel Nessrine, Yangui Ilhem, Feki Walid, Kammoun Sami

**Title:** Nutritional assessment for patients with lung cancer

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**PA2917**  
Pratikchya Karki (Biratnagar, Nepal), Ashesh Dhungana, Samir Neupane

**Title:** Correlation of Imprint and Crush cytology with Bronchoscopic biopsy in the diagnosis of Bronchogenic carcinoma

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**PA2918**  
Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Esther Sanchez, Maria Carmen Fernandez Aguirre

**Title:** Evolution in the pathological study of lung cancer

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**PA2919**  
Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Ester Sanchez Alvarez, Maria Carmen Vera Sanchez

**Title:** Towards personalized treatment in non-small-cell lung carcinoma

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**PA2920**  
Baraa Ben Bdira (Monastir, Tunisia), Iman Gargouri, Wafa Benzarti, Sana Aissa, Asma Knaz, Abdelaziz Hayouni, Ahmed Abdelghani, Abdelhamid Garrouch, Mohamed Benzarti

**Title:** EQ-5D-3L questionnaire for quality of life assessment among lung cancer patients
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 Figuerola, 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 Blibeche, Donia Belkhir, Asma Zaaouri, Mertiem Ben Rouma, 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 Session 195 00:00 - 23:59
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 Grongstad (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, Helenem Demeyer

Frailty in chronic respiratory disease: direction of response to pulmonary rehabilitation
Kola Akinlami (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, Naciyce Vardar Yaglı, Kübra Kılıç, Ebru Calık Kütükçü, Deniz Inal Ince, Saadettin Kılıçkap

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 Pekctin, Naciyce Vardar Yaglı, 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

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, Alicia Hervas, Pilar Hurtado, Betina Campero, Bárbara Romano-Andrino, Silvia Teres-Belles, Elena Gimeno-Santos, Josep Roca, Graciela Martinez-Palli
PA2937  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 Mcendonald, Jennifer Alison

PA2938  Integrating Ambulatory Oxygen assessments into a specialist Interstitial Lung Disease (ILD) clinic
Jennie Turnbull (Maidstone, United Kingdom), Lynn Mckonnell, Wai Lam-Richardson, Alex West, Amy Dewar

PA2939  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

PA2940  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

PA2941  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, Aysegul Asalıoğlu

Pre-congress content  Session 196  00:00 - 23:59

PA2942  Late Breaking Abstract - Incidence of Insomnia and its correlations with parameters of polysomnography
Athina Vlachou (Athens, Greece), Kalirrroi Lambròu, Emmanouil Vagiakis

PA2943  Sleep quality in patients with COPD: clinical and polysomnographic features
Julia Sampol Sirvent (Barcelona, Spain), Marc Miravitlles Fernández, Gabriel Sampol Rubio, Alexa Núñez Dubon, Odile Romero Santo Tomás, Jaume Ferrer Sancho

PA2944  Assessment of Sleep Quality among Patients who Attended Pulmonary Rehabilitation Department in KAMC.
Jawaher AlOtaibi (Saudia Arabia, Saudia Arabia), Munirah Alhaimel, Sara Al Rashidi, Basma Hawsawi, Yassin Ismaiel

PA2945  Sleep disorders in a cohort of Amyotrophic Lateral Sclerosis patients
Bebiana Da Conceição Fernandes Palheiros Conde (Vila real, Portugal), Luisa Nascimento, Margarida Carvalho, Joélma Silva, Catarina Pinha, Elsa Matos

PA2946  ARE ANIMALS OUR BEST FRIENDS IN THE BEDROOM?
Alexandre Manuel Carvalho da Silva Almendra (Braga, Portugal), Vera Clérgio, João Carvalho, José Pereira, Paula Pinto, Raquel Matos, Helena Estevão, Joaquim Moita

PA2947  EAT, BREATHE, SLEEP with Osteogenesis Imperfecta (OI)
Antonella LoMauro (Milan (MI), Italy), Ramona De Amicis, Vittorio Landoni, Giulia De Carlo, Alice Delle Donne, Luana Vicentini, Paolo Fraschini, Simona Bertoli, Andrea Aliverti

PA2948  Is there a mortality disadvantage in tracheobronchomalacia?
Nneka Nwosu (Liverpool (Merseyside), United Kingdom), Hassan Burhan, Ari Manuel

PA2949  Analysis of pulmonary function and obstructive sleep apnea in patients with COPD, asthma and idiopathic pulmonary fibrosis.
Kostiantyn Bazyla (Kyiv, Ukraine), Liudmyla Shvaiko, Olena Stadniychuk, Tetiana Kharchenko, Tetiana Kuzmich, Tetiana Khvostenko

PA2950  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

PA2951  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 Giamarelou, Anastasios Makris, Spyridon Zakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Emmanouil Vagiakis
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<td>PA2952</td>
<td>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</td>
<td>Mikel Sarasate Azkona (Barcelona, Spain), Yuliama Pascual, Eva Farrero, Ana Cordoba, Noelia Cubero De Frutos, Marta Diez Ferrer, Cristina Martin Cabeza, Lidia Mendez Mangas, Rosa Lopez Lisbona, Enric Prats</td>
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<td>PA2953</td>
<td>Respiratory Sleep Disorders Among 37 Patients With Laryngeal Dysfunction.</td>
<td>Kamila Sedkaoui (Toulouse Cedex 9, France), Emmanuelle Mouchon, Woisard Virginie, Sabine Crestani, Pascale Fichaux-Bourin, Marianne Lescouzes, Alain Didier</td>
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<td>PA2954</td>
<td>Respiratory events and nocturnal hypercapnia in patients affected by Amyotrophic lateral sclerosis: the role of body mass index (BMI)</td>
<td>Grazia Cresciimanno (Palermo (PA), Italy), Maria Canino, Manuela Bertini, Oreste Marrone</td>
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<td>PA2955</td>
<td>Sleep disorders in patients with chronic obstructive pulmonary disease</td>
<td>Bohdana Doskalik (Ivano-Frankivsky, Ukraine), Roman Yatsyshyn, Petro Gerych, Natalia Cherniuk</td>
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<td>PA2956</td>
<td>Characterisation of sleep disordered breathing &amp; mood disorders in patients with heart failure</td>
<td>Maitri Munsif (Melbourne, Australia), Rohit Srivatsa, Belinda Liu, Yotika Prasad, Belinda Miller, Matthew Naughton, Eli Dabscheck</td>
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<td>PA2957</td>
<td>Sleep disorder and its associated risk of cardiac arrhythmia in Asian population</td>
<td>I-Duo Wang (Taipei, Taiwan), Wu-Chien Chien, Pei-Yi Tsai, Chi-Hsiang Chung, Chung Kang Peng</td>
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<td>PA2958</td>
<td>Rare cause of central hypoventilation: ROHHAD Syndrome</td>
<td>Gizem Ozcan (Ankara, Turkey), Elif Ozsu, Fazilet Zirek, Nazan Cobanoğlu</td>
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<td>PA2959</td>
<td>Nocturnal hypoxemia, ambulatory blood pressure and chronic mountains sickness in the highest city in the world</td>
<td>Elisa Perger (Milano, Italy), Sebastien Baillieux, Francois Esteve, Aurelien Pichon, Davide Soranna, Stephane Doutraleau, Yann Savina, Mathilde Ullie-Roche, Julien V Brugniaux, Emeric Staufer, Laura Oberholzer, Connor Howe, Ivan Hannco, Carolina Lombardi, Grzegorz Bilo, Renaud Tamisier, Jean Louis Pepin, Samuel Verge, Gianfranco Parati</td>
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<td>The ALONNISO STUDY: Cross-sectional study of the prevalence of Obstructive Sleep Apena Syndrome (OSAS) and Chronic Obstructive Pulmonary Disease (COPD) in the general population of Alonissos</td>
<td>Sotiros Zarogiannis (Larisa, Greece), Petros Kassas, Evdoxia Gogou, Charalampous Varasams, Konstantinos Vogiatzidis, Aegeliki Psatha, Maria Pinaka, Dimitra Siachpazidou, Alexandra Sistou, Eletherios Papazoglou, Despoina Kalousi, Konstantina Vatzia, Kiriaki Astara, Nikolaos Tsouvakas, Konstantinos Gourgoulianis</td>
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**Pre-congress content**

**Session 197**

**E-poster session:** A knowledge update on respiratory muscle function, assessment and training

**Chair(s):** Melda Saglam (Ankara, Turkey), Zafeiris Louvaris (Leuven, Belgium)

**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

**Papers:**

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<td>Relationship between the respiratory function with motor functionality in Duchenne Mucular Dystrophy</td>
<td>Vanessa Resqueti (Natal (RN), Brazil), Layana Marques, Pricila Rezende, Ilsla Priscila Santos, Karyna Fonseca, Marina Lyra, Mario Emilio Durado, Guilherme Fregonezi</td>
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<td>PA2962</td>
<td>Correlations between respiratory function and functional status in Amyotrophic Lateral Sclerosis patients</td>
<td>Karen Pondofe (Natal, Brazil), Ozana Brito, Ana Aline Marcelino, Layana Marques, Pricila Rezende, Italo Nathan Silva, Antonio Sarmento, Mario Emilio Durado, Guilherme Fregonezi, Vanessa Resqueti</td>
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<td>PA2963</td>
<td>Comparison of two different methods for assessing inspiratory muscle strength in patients with multiple system atrophy: a pilot study</td>
<td>Begum Unlu (Istanbul, Turkey), Semra Oguz, Mine Gulden Polat, Saadet Ufuk Yurdalan, Sibel Ertan, Hulya Apaydin</td>
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<td>PA2964</td>
<td>Expiratory muscle training improves pharyngeal muscles and swallowing function in patients with dysphagia</td>
<td>Yuichi Tawara (Hamamatsu, Japan), Ichiro Fujishima, Satoshi Hanai, Shinichi Arizono, Ryo Kozu</td>
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<td>PA2965</td>
<td>Mechanisms of exertional dyspnea in unilateral diaphragmatic dysfunction</td>
<td>Tin Gojevic (Leuven, Belgium), Mayra Caleffi Pereira, Sauwaluk Dacha, Zafeiris Louvaris, Dries Testelmanns, Ghislaine Gayan-Ramirez, Rik Gosselier, Daniel Langer</td>
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<td>PA2966</td>
<td>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</td>
<td>Ridvan Aktan (balcova (izmir), Turkey), Sevgi Ozalevli, Aylin Ozgen Alpaydin</td>
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PA2967 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

PA2968 Effect of expiratory muscle training on peak cough flow in children and adolescents with cystic fibrosis
Cigdem Emirza (Istanbul, Turkey), Goksen Kuran Aslan, Ayse Ayzit Kilince, Haluk Cezmi Cokuras

PA2969 Respiratory Muscle Endurance, Peripheral Muscle Strength and Walking Parameters in Adult Cystic Fibrosis Patients
Rabia Bagei (Bursa, Turkey), Naciye Vardar-Yägli, Melda Saglam, Deniz Inal Ince, Fatma Güllü Yazıcıoğlu, Ebru Çelebioglu

PA2970 Comparison of Respiratory Muscle Strength, Functional Capacity and Peak Oxygen Uptake In Patients With End-Stage Liver Disease and Liver Transplantation
Bilge Taskın (Ankara, Turkey), Naciye Vardar-Yaglı, Melda Sağlam, Ebru Çalış-Kutucu, Deniz Inal-Ince, Onur Keskin, Ahmet Bulent Dogrul

PA2971 Relationship of Respiratory Muscle Endurance Workload with Maximal Oxygen Consumption and Fatigue in Individuals Surviving Colorectal Cancer
Mehmet Fatih Sanver (Ankara, Turkey), Naciye Vardar Yağlı, Melda Sağlam, Haluk Tekerlek, Ebru Çalık Kütükçü, Deniz İnal İnce, Saadettin Kılıçkap

PA2972 The effects of expiratory muscle training after colorectal surgery
Erhan Kizmaz (Denizli, Turkey), Orcin Telli Atalay, Suleyman Gursoy, Ugur Sungurtekin

PA2973 Relation of Respiratory Function and Functional Capacity, Body Composition in Individuals with Alzheimer’s Disease
Kübra Nur Menengiç (İstanbul, Turkey), Feray Güngör, Uğur Ovacık, Nilgün Çınar, İpek Yeldan

PA2974 Individual diaphragmatic stretching technique on diaphragmatic mobility among cerebral palsy: a pilot study
Surussawadi Bennett (Khon Kaen, Thailand), Wantana Siritaratiwat, Nittaya Tanrangka, Michael Bennett, Jaturat Kanpitayta

PA2975 Is the sniff value similar to PImax and inspiratory peak pressure in heathy adults?
Ana Lista-Paz (A Coruña, Spain), Sonia Souto Camba, Luz Gonzalez Doniz, Alejandro Quintela Del Río, Ana Arbillaga Etxarri, Elena Gimeno-Santos, Jordi Vilaró, Rodrigo Torres-Castro, Cristina Serrano Veguillas, Ana B Varas De La Fuente, Pilar Bravo Cortés, Concepción Martin Cortijo, Esther Garcia Delgado, Jose Luis Valera Felices, Carolina Gonzalez Montañez, Esther Gimenez Moohluizjen, Yolanda Sanesteban Hermana, Rocío Martin Valero, Guilherme A Fregonezi, Marina Francini Gallego, Beatriz Herrero Cortina, Jorge Alvarez Rivas, Antonio T Rios Cortés

PA2976 Pre-congress content
Session 198 00:00 - 23:59

E-poster session: Burden and predictive factors for chronic lung diseases and comorbidity

- Airway diseases
- Respiratory critical care
- Sleep and breathing disorders

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

Chairs: Nicolas Kahn (Heidelberg, Germany), Chair to be confirmed

Late Breaking Abstract - Switching from a disposable to a re-usable inhaler: patient satisfaction and preference
Michael Dreher (Aachen, Germany), David Price, Asparuh Gardev, Pascale Peeters, Satish Arora, Simone Van Der Sar – Van Der Brugge, Richard Dekhuijzen, Omar Usmani
PA2981 Late Breaking Abstract - Compare outcomes between COPD patients treated with tiotropium/olodaterol (TIO/OLO) and umclidinium/vilanterol (UMEC/VI) 
Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston

PA2982 Relationship of the polymorphism Lys198Asn endothelin-1 gene with COPD and coronary heart disease. 
Anastasiia Lilevska (Vinnitsa, Ukraine), Valentyna Sierkova, Olena Savytska

PA2983 Arterial stiffness in patients with chronic obstructive pulmonary disease combined with arterial hypertension 
Ekateryna Makarova (Nizny Novgorod, Russian Federation), Marina Milutina , Vasily Fedotov, Nikolay Menkov, Nataliya Lyubavina, Svetlana Plastinina

PA2984 Topical evaluation of growth factors in arterial remodeling in patients with COPD and osteoporosis 
Ludmila Ugay (Vladivostok (Primor'ye), Russian Federation), Evgenia A. Kochetkova, Vera Nevzorova, Tatyana Hairzamanova

PA2985 The main predictors and consequences of osteosarcopenia in COPD patients 
Angelina Suleymanova (Moscow, Russian Federation), Irina Baranova

PA2986 Correction of the anemia of chronic disease among COPD patients 
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Liudmyla Prystupa

PA2987 Tolerability of inhalation of salt particles in COPD patients 
Ulla Møller Weinreich (Ålborg, Denmark), Sisse Dyrman Nielsen

PA2988 Sputum microbiome richness is decreased in patients treated for acute exacerbations of eosinophilic chronic obstructive pulmonary disease 
Zhiyi He (Nan Ning, China), Yujing Qi

PA2989 Mass spectrometry proteomic biomarkers identify acute COPD exacerbations 
Omer Elneima (Leicester, United Kingdom), Thong Huy Cao, Hamish Mcauley, Mohammadali Yavari Ramshe, Vijay Mistry, Neil Greening, Leong Ng, Christopher Brightling

PA2990 Clinical factors associated with baseline blood eosinophils among patients with asthma or COPD: NOVELTY study 
Hana Müllerová (Ickenham, United Kingdom), Donna K Finch, Alvar Agustí, Marianna Alacqua, Gary P Anderson, Richard Beasley, Laura Belton, Alex Di Giorgio-Miller, J Mark Fitzgerald, Rod Hughes, Ian D Pavord, David Price, Eleni Rapsomaniki, Mohsen Sadatsafavi, Jørgen Vestbo, Elisabeth H Bel

PA2991 The burden of emphysema on lung cancer prognosis 
Nieynaba N Diaye (, France), Julia Rubenstein, Hugues Begueret, Isabelle Dupin, Pauline Henrot, Elise Maurat, Remi Veillon, Chantal Raherison-Semjen, Patrick Berger, Maeva Zysman

PA2992 Lung function and exercise capacity in COPD phenotypes with and without emphysema 
Oystein Rasch-Halvorsen (Trondheim, Norway), Erland Hassel, Ben Brumpton, Haldor Jenssen, Martijn Spruit, Arnulf Langhammer, Sigurd Steinshamn

PA2993 Effects of Diltiazem on pulmonary hemodynamics and right heart function in patients with chronic obstructive pulmonary disease (COPD)> 
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Constantin Martiniuc, Ecaterina Luca, Nicolae Bodrug, Doina Barba, Eudochia Terna, Ion Sirbu, Nelea Ghicavii, Sergiu Matcovschi

PA2994 Leptin levels and adiposity measures in overweight and obese asthma patients 
Armign Gasparyan (Moscow, Russian Federation), Natalia Chichkova, Natalia Serova, Evgeniy Gitel

PA2995 Obesity and asthma: very long-term effect of bariatric surgery on lung function and asthma control 
Yasemin Türk (Rotterdam, Netherlands), Harman K Singh, Astrid Van Huisstede, Erwin Birnie, Pieter S Hiemstra, Gert-Jan Braunstahl

PA2996 A qualitative study of user perspectives on electronic monitoring devices for adherence in asthma 
Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Mitesh Patel, Tricia M. Mckeever, Dominick E. Shaw, Manpreet Bains

PA2997 Long-term echocardiographic changes with positive airway pressure therapy in obesity hypoventilation syndrome 
Mª Angeles Sanchez Quiroga (Plasencia, Spain), Juan Fernando Masa Jiménez, Babak Mohklesi, Ivan Benitez, Maria Victoria Mogollón, Francisco Javier Gómez De Terreros, Auxiliadora Romero, Candela Caballero Eraso, María Luz Alonso Álvarez, Estrella Ordax Carballo, Teresa Gómez García, Mónica González, Soledad López Martín, José María Marin, Sergi Marti, Trinidad Díaz Cambrilles, Eusebi Chiner, Carlos Egea, Javier Barca, Francisco José Vázquez Polo, Miguel Angel Negrin, Maria Martel Escobar, Jaime Corral
Pre-congress content  Session 199  00:00 - 23:59

E-poster session: Clinical issues in granulomatous lung diseases

**Disease(s):** Interstitial lung diseases  Airway diseases  Pulmonary vascular diseases  Respiratory critical care

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

**Chairs:** Francesco Bonella (Düsseldorf, Germany), Chair to be confirmed

**PA2999**
A comparison of the clinical profile of Sarcoidosis and Mediastinal TB: A prospective cohort study in a TB endemic population
Karan Madan (New Delhi (Delhi), India), Sryma Pb, Bijay Pattnaik, Saurabh Mittal, Pavan Tiwari, Vijay Hadda, Deepali Jain, Anant Mohan, Ravindra Pandey, Randeep Guleria

**PA3000**
Pulmonary sarcoid-like granulomatosis during tumour necrosis factor-alpha inhibition: a scoping review
Allison Michaud (Calgary, Canada), Daniel Vis, Helen Lee Robertson, Jason Weatherald

**PA3001**
Chronic Hypersensitivity Pneumonitis and mortality: impact of comorbidities
Ana Luisa Fernandes (Matosinhos, Portugal), Bruno Cabrita, Sara Dias, Jorge Ferreira, Inês Neves

**PA3002**
Correlation among pulmonary function tests and radiologic involvement in the monitoring of sarcoidosis
Joel Francesqui (Barcelona, Spain), Marta Llabrés, Pilar Brito-Zerón, Mariana Benegas, Fernanda Hernandez-Gonzalez, Nuria Albacar, Xavier Bosch, África Muxí, Marc Boada, Marcelo Sánchez, José Ramirez, Carlos Agusti, Manuel Ramos-Casals, Jacobo Sellarelú

**PA3003**
Characterisation of patients with chronic hypersensitivity pneumonitis (CHP): a seven year single centre experience
Abhinav Tiwari (Southampton, United Kingdom), Anna Donaldson, Thomas Jones, Vanessa Titmuss, Suresh Babu

**PA3004**
Allergic diseases in patients with sarcoidosis: data from a tertiary pulmonary center
Piotr Ławicki (Lodz, Poland), Joanna Milkowska-Dymanowska, Mateusz Kotecki, Łukasz Gwadera, Justyna Sobczak, Sebastian Majewski, Adam Białas, Maciej Kuczyk, Piotr Kuna, Wojciech Piotrowski

**PA3005**
Comorbidities in sarcoidosis: a retrospective Italian study
Ilaria Aredano (Parma (PR), Italy), Barbara Burgazz, Elena Beneventi, Matteo Goldoni, Veronica Alfieri, Marina Aiello, Fabio Agusta, Giuseppina Bertorelli, Alfredo Antonio Chetta

**PA3006**
The Profile of Sarcoidosis in Greece: Clinical characteristics, Extra-pulmonary manifestations, Long-term Follow-up
Ourania Koltsida (Athens, Greece), Anastasios Kallianos, Trakada Georgia, Maria Xarikiopoulou, Aggeliki Rapti

**PA3007**
Relapse ratios and factors affecting relapse in sarcoidosis patients that are followed at least 5 years.
Nagihan Orhan Ozer (Istanbul, Turkey), Elif Yelda Nkarioluoglu, Elif Altundas Hatman, Ayşe Yeter, Emine Şahin, Güngör Çansari

**PA3008**
Clinical characteristics and prognosis of sarcoidosis in Western China: a retrospective study
Xiang Tong, Dongguang Wang, Sijing Liu, Hong Fan

**PA3009**
Problems of diagnosis of pulmonary sarcoidosis
Zhanna Laushkina (Novosibirsk, Russian Federation)

**PA3010**
Features of scar sarcoidosis: 20 years observation study in Khariv, Ukraine
Olha Konstantynovskva (Kharkiv, Ukraine), Petro Poteiko, Valentyna Pyshynska

**PA3011**
Cardiac symptoms are a survival predictor in sarcoidosis
Theresia Mikolasch (Cambridge (Cambridgeshire), United Kingdom), Henry Yung, Muhunthan Thillai

**PA3012**
Predictors of Progression in Patients with Pulmonary Sarcoidosis
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Ksenia Ostrovskva

**PA3013**
?lindrical and radiological variants of fibrosis pulmonary sarcoidosis
Olga P. Baranovna (St. Petersburg, Russian Federation), Alexandra S. Speranskaya, Dali V., Michail M. Ilkovich

**PA3014**
Rescue administration of cyclophosphamide in patients with DAH - retrospective evaluation and outcome from our ICU
Jiri Blažek (Nevěstice, Czech Republic), Olga Kirchnerová, David Havel, Jan Klboch, Jan Baxa, Petra Moláčková

**PA3015**
Personality and chronotype as predictors of sarcoidosis-associated fatigue - a cross-sectional study
Łukasz Mokros (Petrzykozy-Osiedle, Poland), Joanna Milkowska-Dymanowska, Łukasz Gwadera, Tadeusz Pietras, Paweł Górski, Wojtek J. Piotrowski
Correlation of King’s Sarcoidosis Questionnaire with clinical parameters
Bjoern 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, Mariya Banyonis, Mariya 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 Wiamsemksy, 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, José 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, Araceli Ortiz Rubio, 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 Ruttens, 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 Wongwiean, 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 Vasiliadis, Lauren Tracey, Pat Camp, Francine Campbell, Gail Dechman, Roger Goldstein, Suzanne Levitz, Gregory Moullec, Maria Sedeno, Jadranka Spahić, Michael Stickland, Joshua Wald

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 Poddighe, Beatrix Clerckx, Greet Hermans, Rik Gosselink, Daniel Langer

Inspiratory muscle training with tapered flow resistive loading versus mechanical threshold loading in difficult to wean patients
Marine Van Hollebeke (Leuven, Belgium), Laura Muelas, Mariana Hoffman Barbosa, Beatrix Clerckx, Greet Hermans, Daniel Langer, Rik Gosselink

The effects of abdominal support in diaphragm function in critically ill patients: a pilot observational study
Caroline Gomes Mól (São Paulo, Brazil), Monize Alves Aquino, Renato Batista Dos Reis, Catherine Cely Oliveira, Clarice Tanaka

Physiotherapy early mobilization in Cardiac Surgical ICU.
Stefano Zampese (Ivrea, Italy), Camilo Corbellini, Floriana Pinto, Marta Lazzeri

ICU Physiotherapist’s early mobilization theoretical and practical knowledge: What do they know?
Luciana Chiavegato (São Paulo (SP), Brazil), Marcela M M Fagundes Almeida, Ricardo Kenji Nawa, Natalia Ricci

Effects of muscle electrical stimulation on respiratory muscle in patients with prolonged mechanical ventilation
Yen-Huey Chen, Yi-Fei Hsin, Shu-Hsin Chen, Teng-Jen Yu, Chung-Chi Huang

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
Airway obstruction due to occluded cuffless tracheostomy: A prospective longitudinal study
JOSE SANCHEZ (Valencia, Spain), Maria Dels Angeles Cebria I Iranzo, Sophie Périé

Severity Physiotherapeutic score applied in Intensive Care
Elisa Cristina Wendland Santos (Porto Alegre (RS), Brazil), Bilianderson Cardoso Alves, Guilherme De Moraes Maia, Natalia Coelho De Souza Maia

Pre-congress content Session 201 00:00 - 23:59

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)

PA3035 Trojan Horse of Tobacco Industry: Point of Sales
Elif Dagli (Istanbul, Turkey), Ummuhan Pece, Osman Elbek, Murat Guner, Pinar Ay, Tanzer Gezer, Murat Ceyhan, Fusun Yildiz

PA3036 Smoke-free policy in Poland: a ten-year analysis
Mateusz Jankowski (Warsaw, Poland), Wojciech S. Zgliczyński, Jaroslaw Pinkas

PA3037 The first report of tobacco industry interference index in Eastern Mediterranean countries: the experience of Iran based on Framework Convention on Tobacco Control (FCTC) Article 5.3
Gholamreza Heydari (Tehran, Islamic Republic of Iran)

PA3038 Moist snuff a emerging trend - Regulations
Qamar Iqbal (Gujranwala, Pakistan)

PA3039 Assessment of the change in burden of respiratory diseases in children and household smoking habits in Turkey after adoption of National Tobacco Control Program
Fatma Nazan Çobanoğlu (Ankara, Turkey)

PA3040 Will plain packaging of cigarettes achieve the expected ? : Perception among Medical Students
Elif Dagli (Istanbul, Turkey), Pinar Ay, Yesim Yasin, Osman Elbek, Murat Guner, Tanzer Gezer, Murat Ceyhan, Fusun Yildiz

PA3041 A decade after introducing WHO Report on the Global Tobacco Epidemic, trend analysis of implementation of the WHO FCTC MPOWER in Eastern Mediterranean Region
Gholamreza Heydari (Tehran, Islamic Republic of Iran)

PA3042 A pilot training on tobacco brief intervention in UBI medical school: The WHO-ERS e-learning course.
Sofia Belo Ravara (Covilhã, Portugal), Hilson Cunha-Filho

PA3043 Smoking cessation in secondary care: Can we do better or is this as good as it gets?
Nitika Kaushal (Bexleyheath (Kent), United Kingdom), Burhan Khan

PA3044 Reasons for smoking' in patients from the pulmonology outpatient clinic of Brazil
Elisa Sebba de Souza Vega (Ribeirao Preto (SP), Brazil), Nelson De Araujo Vega, Eloisamaria Gatti Regueiro, Lucila Costa Zini Angelotti, Lucas Borges De Melo, Rafaela Maria D’Almeida E Silva De Toledo Ramos, Gabriela Vilasboas Navarro

PA3045 The combined effects of announcing spirometric lung age and an education session about smoking harms on cigarette-smokers' attitudes
Helmi Ben Saad (Sousse, Tunisia), Khansa Derbal, Chiraz Maatoug, Samia Ernez, Khaoula Hadj Mabrouk

PA3046 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

PA3047 Management of the outpatient smoking cessation consultation in a tertiary hospital
Duibris Josefa Velasco Alvarez (Madrid, Spain), Carmen Rodriguez Calle, Andrea Perez Figuera, Beatriz Pintado Cort, Francisco Leon Roman, Edwin Mercedes Noboa, Deisy Barrios Barreto, Isabel Hornero De La Cruz, Rosa Mirandeaux Villalona

PA3048 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 Antônia Galego, Ana Luisa Fernandes, Sara Dias, Silvia Correia, Paula Simão, Jorge Ferreira, Joana Amado

Profile of the tobacco consultation’s patient depending on the procedure of the service
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, Jair Rauseo López, Maria Bartol Sánchez, Ruth García Garcia, Laura Gil Pintor, Cristina Julia Alvarez

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.
Miguel Angel Hernandez Mezquita (Aldeatejada, Spain), Cristina Julia Alvarez, Virginia Guevara Velazquez, Soraya Jodra Sánchez, Ruth García García, Jair Rauseo López, Maria Bartol Sánchez, Ana Sánchez Fernández, Miguel Barrueco Ferrero

Pre-congress content Session 202 00:00 - 23:59
E-poster session: The role of health care systems in treating tobacco dependence
Disease(s) : Sleep and breathing disorders  Thoracic oncology  Airway diseases
Method(s) : General respiratory patient care  Public health  Palliative care  Epidemiology
Chairs : Paraskevi Katsaounou (Athens, Greece), Keir E. Lewis (Llanelli (Dyfed), United Kingdom)

COPD patients continue to smoke after being diagnosed for COPD
Paraskevi Katsaounou (Athens, Greece), Sofia Pappa, Stavros Patrinos, Nikos Sakkas, Alexander Osarogue, Elpida Sakka, Filippos Filippidis

National epidemiological study of smoking cessation in danish patients with chronic obstructive pulmonary disease
Dea Keijberg Andelius (Risskov, Denmark), Ole Hilberg, Rikke Ibsen, Anders Lokke

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 Tunsätter, 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 Filippidis

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 nicotinic withdrawal syndrome.
Virginia Guevara Velazquez (Salamanca, Spain), Cristina Julia Álvarez, Miguel Ángel Hernández Mezquita, Jair Rauseo López, Maria 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 Briñner, Natalia Colissi, Alessandra Boesing, Andressa Seehaber, 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 (llanelli (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 Gytopoulos, Vasiliki Vasileiou, Zafeiria Barbareou, Alexander Osarogue, Vasiliki Saltagianni, Martha Andritsou, Sofia Pappa, Vasiliki Papadopoulou, Serena Tonstad, Christina Gratiou, 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, Charlotta Pisinger, Vinayak M Prasad, Rosa Sandoval, 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 Acute 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 Jalušić 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 (Uppsala, 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 Patrícia Almeida Borges (Coimbra, Portugal), Fátima Fradinho

Methacholine challenges: comparison of different tidal breathing challenge methods.
James Dean (Holmes Chapel, United Kingdom), Lucy Connor, Natalie Jackson, Brett Keidel-Morgan, Daniel Hamer, Dave Singh

A novel technique “slow spirometry” to estimate tidal volumes for use in AVAPS mode ventilation in children.
Clare Hallhide (Warrington (Cheshire), United Kingdom), Philip Lawrence, Amanda Reed, Meg Macdonald, Kim Lund, Liam Durkin

AN EVALUATION OF SLOW VITAL CAPACITY AND FORCED VITAL CAPACITY DIFFERENCE IN ACO PATIENTS WITH OBESITY
Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Oksana Pritulyak, Iryna Nemish

Effect of changing post gas-sampling point equipment dead space on MBW outcomes
Felix Ratjen (Toronto (ON), Canada), Renee Jensen, Michelle Shaw, Sanja Stanojevic, Julia Guido, Charles Clem, Sylvia Jara, Stephanie Davis, Hartmut Grasemann, Melinda Solomon, Neil Sweezy, Valerie Waters

Peak in- and expiratory flow rates: reproducibility and reference values in adults
Shane Hanon (Bruxelles, Belgium), Eef Vanderhelst, Walter Vincken, Daniël Schuermans, Sylvia Verbanck
Can the prediction point for FEV1/FVC be determined in patients with insufficient expiratory maneuver to determine airflow obstruction?
Dildar Duman (Istanbul, Turkey), Fatma Merve Tepetam, Tuğçe Yakut, Şeyma Özden, Selver Seda Mersin, İsmet Bulut

Investigation of the Relationship Between Breath Retention Time and Blood Parameters in Stroke Patients
Abdurrahim Yıldız (Istanbul, Turkey), Rustem Mustafaoğlu, Sensu Dincer

Closing volume predicts the FEV1 response to bronchodilators in patients with COPD
Dejan Radovanovic (Milano (MI), Italy), Matteo Pecchiari, Marina Saad, Pierachille Santus

Assessment of pulmonary vascular adaptation to exercise in emphysematous COPD patients with MRI - a pilot study
Thibaut Capron (Marseille, France), Stanislas Rappacchi, Clarisse Gautier, Faiza Bettuyeb, Sophie Morange, Maxime Guye, Monique Bernard, Pascal Chanez, Jean-Yves Gaubert, Alexis Jacquier, Martine Reynaud-Gaubert

Adequateness of impulse oscillometry (IOS) reference values in the Swedish Cardiopulmonary biomage Study (SCAPIS)
Jenny Hallberg (Stockholm, Sweden), Christer Janson, Johan Sundström, Xingwu Zhou, Per Wollmer, Andrei Malinovschi

Simplifying the measurement of neural respiratory drive index: parasternal electromyogram to measure respiratory rate
Grace McDowell (Glasgow (Glasgow), United Kingdom), Rebecca Dcruz, Nicholas Hart, Patrick Murphy, Christopher Carlin

Inter-observer reproducibility assessment of parasternal electromyogram (EMG para) analysis: a tale of two cities
Grace McDowell (Glasgow (Glasgow), United Kingdom), Rebecca Dcruz, Nicholas Hart, Patrick Murphy, Christopher Carlin

The nonlinear volume-dependent extended RIC model for Forced Oscillation Technique measurements
Chuong Ngo (Aachen, Germany), Falk Dippel, Steffen Leonhardt

Reproducibility of Structured Light Plethysmography (SLP) in different positions
Eyas Alhuthail (Birmingham, United Kingdom), Brendan Cooper, Andrew Coney

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-Rommanhlo, 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 Cecatto (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 Giamello (Busca, Italy), Remo Melchior, 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
Ryosuke Yokosuka (Tokyo, Japan), Ryosuke Imai, Syosei Ro, Manabu Murakami, Ryosuke 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 Chemiti 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 Cristino

is hypercapnia associated with severe forms of community-acquired pneumonia?
Alia Ezzaouita (Tunis, Tunisia), Chirine Moussa, Houda Rouis, 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-lactamic 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 Masclans, Nilam Soni, Alejandro Rodriguez, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Antonio Anzueto, Katerina Dimakou, Miras Medenica, Roberta Petrino, Ewoudt Van De Garde, Marcos I Restrepo

Awareness and Pneumonia knowledge: where to start educating?
Catia Cilloniz Campos (Barcelona, Spain), Carmen Rosa Vargas, Cristina Dominedo, Carolina Garcia-Vidal, Laura Moreno

Risk Factors for Multidrug-resistant Bacteria in a Respiratory Intensive Care Unit
Marcos Oliveira (Agua 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
Lucia Méndez González (Santa Maria da Feira, Portugal), Silvia Saldanha, Isabel 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)

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
Clinical features of Mycoplasma pneumoniae infections in Bulgarian children
Dimitrinka Miteva (Sofia, Bulgaria), Snezhana Parina, Kristin Guenkova, Bilyana Georgieva, Penka Perenovska, Guergana Petrova

Clinical-epidemiological study of lipoid 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

Morbidity mortality of pulmonary hydatid cyst in children
amina abdelkhir (ben arous, Tunisia), Rime Essid, Imen Bouassida, Hazem Zribi, Sarra Maazaoui, Yoldez Houcine, Sonia Ouerghui, Adel Merghli

Marked Variability Observed in Inpatient Management of Bronchiolitis in a tertiarycenter. Can we do better?
Elpis Hatsiagorou (Thessaloniki, Greece), Syrmo Styliani Kyrvasili, Maria Parisi, Fotios Kirvassilis, John Tsanakas

The spontaneous pneumothorax in children : about 30 cases
amina abdelkhir (ben arous, Tunisia), Imen Bouassida, Sarra Zairi, Hazem Zribi, Amani Ben Mansour, Aida Ayadi, Amira Dridi, Adel Merghli

A review of discharge of children with tracheostomy and long-term ventilation
Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Zaynab Chatoo, Maryam Hafeji, Ben Elkington, Kamini Jain, Helen Hickey

Prevalence of mechanical assisted cough in the Norwegian neuropediatric population
Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Ingvild Bruun Mikalsen, Solfrid Indrekvam, Vegard Hovland

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

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

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

Change in the prevalence of asthma and rhinitis related symptoms in school-aged children and adolescents in Costa Rica
Manuel Soto Martinez (San José, Costa Rica), Adriana Yock-Corrales, Fiorella Aglietti, Marianna Pacheco, Gloriana Villalobos, Lydiana Avila, Manuel Soto-Quiros

Reported symptoms differentiate diagnoses in children with exercise-induced respiratory problems
Eva Sophie Lunde Pedersen (Bern, Switzerland), Carmen Cornelia Maria De Jong, Cristina Ardua-Garcia, Maria Christina Mallet, Juerg Barben, Carmen Casautla, Karin Hoyler, Anja Jochemann, Alexander Moeller, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Myrto Goutaki, Claudia E Kuehni

Is telephone monitoring as effective as home visit monitoring for technology dependent children?
Fotios Kirvassilis (Oraiokastro, Greece), Elisavet-Anna Chrysochou, Elpis Hatsiagorou, John Tsanakas

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 Bounce, 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

Disease(s): Thoracic oncology, Airway diseases, Sleep and breathing disorders
Method(s): Surgery, Pulmonary rehabilitation, General respiratory patient care, Endoscopy and interventional pulmonology, Transplantation, Respiratory intensive care

Chairs: Kalliopi Athanassiadi (Athens, Greece), Chair to be confirmed
PA3124  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, Luís Vouga, José Miranda

PA3125  Reconstructive surgery for bronchial fistulas after resections of the lung.
Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimiy

PA3126  Bronchial stump insufficiency after pneumonectomy.
Shuhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

PA3127  Nebulised therapy in preventive maintenance of bronchial stump insufficiency after pneumonectomy.
Shuhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

PA3128  Determinants of completion of a home-based rehabilitation program in patients awaiting lung surgery for lung cancer: a prospective observational multicenter study
Héléoise Catho (Nantes, France), Sébastien Guigard, Anne-Claire Toffart, Gil Frey, Pierre-Yves Brichon, Linda Sakhrhi, Dominique Bertrand, Charles Aguirre, Sandy Gorain, François Arbib, Bernard Wuyam, Jean-Christian Borel

PA3129  Lung expansion and alternation of low attenuation volume in lobectomized patients.
Masanori Yokoba (Sagamihara (Kanagawa prefecture), Japan), Tsuyoshi Ichikawa, Shinya Harada, Takahiro Ozawa, Seichiro Kusuhara, Tomoya Fukui, Satoshi Igawa, Hisashi Mitsufuji, Masaru Kubota, Jiichiro Sasaki, Katsuhiko Naoki, Yukitoshi Sato, Masato Katagiri

PA3130  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

PA3131  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 Ouerghi, Adel Marghli

PA3132  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

PA3133  Results of surgical treatment of patients with inflammatory pseudotumors of thoracic localization
Evgenii Zinchenko (Saint-Petersburg, Russian Federation), Vadim Pischik, Olga Maslak, Aleksander Kovalenko, Aleksander Obornev

PA3134  Lung necrosectomy in pediatric patients with necrotizing pneumonia
Jose Alfredo Santibanez-Salgado (México D.F, Mexico), Francina Valezka Bolaños-Morales, Patricio Javier Santillán-Doherty, Israel Hernández-Ramírez

PA3135  Development of the Diaphragmatic Paralysis Questionnaire (DPQ)
Sarah Schwarz (Köln, Germany), Nils Jurian Kosse, Wolfram Windisch, Aris Koryllos, Alberto Lopez, Stephan Strassmann, Denis Piras, Erich Stoelben

PA3136  Investigation of biodegradable porous implants based on polylactide and polycaprolactone

PA3137  Contralateral anterical mediastinal plasty with a polymer mesh implant - a new method of surgery for post-pneumonectomy mediastinal hernia in patients with widespread tuberculosis.
Ruslan Tarasov (Moscow, Russian Federation), Elena Krasnikova, Vilayat Aliev, Georgiy Chitorelidze, Mamed Bagirov

PA3138  Lung volume reduction surgery - an underutilised treatment?
Sayed Alderazi (Birmingham (West Midlands), United Kingdom), Simon Gompertz, Mohammed Ziaullah Khan, Anita Sullivan
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ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
Pre-congress content Session 208 00:00 - 23:59

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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**PA3156**

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

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**PA3157**

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

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**PA3158**

Diesel exhaust particles induction of allergic asthma to low doses of soybean

Miquel de Homdeedu Cortes (Barcelona, Spain), María Jesús Cruz, Silvia Sánchez Diez, Susana Gómez, Íñigo Ojanguren, Christian Romero, Xavier Muñoz

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**PA3159**

Ozone and COPD: a systematic map of epidemiological and experimental studies

Tianyu Zhao (Munich, Germany), Iana Markevych, Christian Janßen, Dennis Nowak, Nadine Stockling-Muschack, Joachim Heinrich

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**PA3160**

Pulmonary toxicity induced by electric charged soot particles in mice

Hsiao-Chi Chuang (Taipei, Taiwan), Hsiao-Chi Chuang, Ta-Chih Hsiao, Tzu-Ting Yang, Chii-Hong Lee

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**PA3161**

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

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**PA3162**

A comparison of 99mTc-DTPA clearance and translocation of nano particles in chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis

Mikaela Qvarfordt (Huddinge, Sweden), Martin Anderson, Alejandro Sanchez-Crespo, Maria Diakopoulou, Magnus Svartengren

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**PA3163**

Risk occupations of irritant-induced occupational asthma.

Irmeli Lindström (Helsinki, Finland), Jussi Lantto, Satu Soini, Katri Suuronen, Hille Suojalehto, Kirsi Karvala

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**PA3164**

In former asbestos-exposed workers TCT findings are more highly correlated to DLCO than to vital capacity

Alexandra Marita Preisser (Hamburg, Germany), Katja Schlemmer, Robert Herold, Azien Laqmani, Claudia Terschüren, Volker Harth

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**PA3165**

CHARACTERISTICS OF PATIENTS EVALUATED IN SPECIALIZED POST-ASBESTOS EXPOSURE OUTPATIENT CLINIC

Carolina España Dominguez (Cádiz, Spain), María Morales González, Antonio Hidalgo Molina, Isabel Muñoz Ramírez, Alfonso Marín Andreu, Fernándo Romero Valero, Juan Antonio Córdoba Doña, Antonio León Jiménez

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**PA3166**

Respiratory symptoms and induced sputum abnormalities in fuel pump workers.

José Antônio Badini Martinez (Ribeirão Preto (SP), Brazil), Tiago Henrique Silva, Ada Gastaldi, Marcel Koenigkam Santos, Bruno Spinosa Di Martinis

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**PA3167**

Interstitial Lung Disease (ILD) in aluminium welders

Johanna Feary (London, United Kingdom), Helen Parfrey, Sherwood Burge, Andrew G Nicholson, Anand Devaraj, Paul Cullinan

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**PA3168**

Association of selected risk factors which affect Chronic Obstructive Pulmonary Disease (COPD) among patients in the National Hospital for Respiratory Diseases (NHRD), Sri Lanka

Amita Madushani, Shanaka Jayasinghe, Tharaka Siriwardhana, Kaushalya Kumari, Chathurika Wirasagoda, Piyumi Weerawardhana, Varuna Navaratne

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**PA3169**

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

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**PA3170**

Occupational exposure assessment to chromium using a job-exposure matrix based approach based on biomonitoring data

Zehra Nur Toreyin (Izmir, Turkey), Lode Godderis
### PA3171 Specific inhalation challenge test results in occupational and non-occupational asthma patients: Is monitoring peak expiratory flow rate sufficient for diagnosis?
Bilge Akgündüz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Gülden Sari

### PA3172 Prevalence and correlates of asthma in Indian children and their parents: data from Global asthma Network
Nishtha Singh (Jaipur (Rajasthan), India), Sheetu Singh, Sundeep Salvi, Shally Awasthi, Nishtha Singh, Monica S Barne, Meenu Singh, Sabir Mohammad, Sanjay K Kochar, Sushil K Kabra, Sanjeev Sinha, Alok G Ghoshal, Tu Sukumaran, Mahesh Pa, Daya K Mangal, Virendra Singh

### E-poster session: Asthma inhalers: devices and adherence studies

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<th>Disease(s)</th>
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<td>Airway diseases</td>
<td>General respiratory patient care</td>
<td>Federico Lavorini (Firenze (FI), Italy), Thomas Bahmer (Kiel, Germany)</td>
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### 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, Francisca Álvarez Gutierrez, Julio Delgado Romero, Carlos Campos Sien, Paula Rytilä

### Inhaler technique training of community pharmacists and common errors
Bransilava Mileković (Beograd, Republic of Serbia), Masa Roganovic, Milena Kovacevic, Milica Culafic, Marija Jovanovic, Katarina Vucevic, Sandra Vezmar Kovacevic, Bransilava 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, Hendrik 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 Domagala, Marta Dąbrowska, Marta Maskey-Warzęchowska, Rafal 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 Garbisz, Joanna Jerzynska, Anna Lato, Wojciech Machowiak, Bernadetta Majorek-Olechowska, Anna Olech-Cudzik, Iwona Poziomkska-Gesicka, Mirosława Rulewicz-Warniello, Anna Swiderska, Michał 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 Haikarainen, Grace Parker, Noora Paronen

### Assessment of inhalation technique and satisfaction with inhalers in asthmatic patients
Hana Bilbechi (Ariana, Tunisia), Donia Belkhir, Houda Snene, Asma Zaafouri, 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
PA3187  Orally inhaled drug particle deposition efficiency in subjects with two-level laryngotracheal stenosis
Dennis Frank-Ito (Durham, NC, United States of America)

PA3188  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

PA3189  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

PA3190  Devise use errors among patients with asthma and COPD - A real-life study
Andriana Papaioannou (Vrilissia (Athens), Greece), Konstantinos Bartzikas, Georgios Hillas, Evangelia Fouka, Aikaterini Dimakou, Maria Kalliari, Stamatoula Tsirika, Georgia Papadaki, Evgenia Papathanasiou, Anastasios Papaporyriou, Vasiliki Apollonatou, Galateia Verykokou, Myrto Mplizou, Despina Papakosta, Effrosyni 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)

PA3191  In-vitro and in-vivo validation of Cosmed Q-box system
Mart N. van der Plas (Monster, Netherlands), Frans H.C. De Jongh

PA3192  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

PA3193  Influence in outcome of the bodyplethysmography measurement performed with or without supporting cheeks and jaw.
Justine Wadners (Leusden, Netherlands), Jellien Makonga

PA3194  Estimation of lung functional residual capacity by the multiple-breath washout test versus bodyplethysmography in healthy subjects
Galina Nekludova (Moscow, Russian Federation), Alexander Cherniak

PA3195  Impulse oscillometry in the diagnosis of bronchoconstriction induced by acetylcholine inhalation
Elena Kokorina (Vsevolozhsk, Russian Federation), Larisa Kiryukhina, Nina Denisova, Natalia Nefedova, Sofia Kovaleva

PA3196  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 Bábarra

PA3197  Comparison of peak heart rate achievable using arm ergometry versus leg ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr

PA3198  Comparison of oxygen uptake obtained using arm and leg cycle ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr

PA3199  Comparison of anaerobic threshold obtained using arm and leg cycle ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr

PA3200  Community respiratory diagnosis: It's more than just spirometry
Ross Beech (Bury St Edmunds, United Kingdom), Luke Youngs, Matthew Rutter, Karl Sylvester

PA3201  Is there an interest in modifying spirometric reference equations?
Nozha Ben Salah (Tunis, Tunisia), Houda Snen, Hana Blibeche, Donia Zaaffouri, Nadia Mehiri, Bechir Louzir

PA3202  GLI is a better predictor of airway obstruction in young, asymptomatic patients with Marfan syndrome
Abigail Margit Kolonics-Farkas (Budapest, Hungary), Zsuzsanna Kovats, Aniko Bohacs, Balazs Odler, Kalman Benke, Bence Agg, Zoltan Szabolcs, Veronika Müller

PA3203  Bronchodilator reversibility is associated with non-adherence to inhalers in stable asthma patients, without airflow limitation.
Daniel Schuermans (Bruxelles, Belgium), Shane Hanon, Eef Vanderhelst
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<td>Liliana Raposo (Queijas, Portugal), Ana Sofia Oliveira, João Valença, Cristina Bárbara</td>
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<td>PA3205</td>
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<td>Bronchodilator response in healthy subjects</td>
<td>Matthew Hegewald, Robert Jensen</td>
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<td>Ana Lutas (São Domingos de Rana, Portugal), Maria João Lage, Teresa Pequito, Marco Pereira, Ana Ladeira, Filipa Todo Bom, Sofia Furtado</td>
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<td>Comparative analysis of the arterial oxygen saturation (SaO2) and pulse oximetry measurements (SpO2) in patients with pulmonary tuberculosis</td>
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**Pre-congress content**

**Session 211**

**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)

<p>| PA3210     | 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 Weldemichael, Siyang Zeng, Warren Gold |
| PA3211     | Updated normative reference values for peak cardiopulmonary exercise test responses in adults 40 years and over | Hayley Lewthwaite (Montreal (QC), Canada), Andrea Benedetti, Michael K Stickland, Jean Bourbeau, Jordan A Guenette, François Maltais, Darcy D Marciniuk, J. Alberto Neder, Denis E O’Donnell, Benjamin M Smith, Tan C Tan, Dennis Jensen |
| PA3212     | 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 |
| PA3213     | 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 |
| PA3214     | 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 |
| PA3215     | Improved small airway function by benralizumab in patients with severe eosinophilic asthma | Tanya Badal (Campden, Australia), Nicola Reed, Leigh M Seccombe, Alice M Cotte, Cindy Tharmin, Gregory G King, Matthew J Peters, Claude S Farah |
| PA3216     | 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 |
| PA3217     | 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 |
| PA3218     | 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 Grayce Silva Vieira, Andrezza A. Viana, Esmivany Lhara Freitas Castro, Andrea Aliverti, Vanessa R Resqueti |</p>
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<td>Guilherme Fregonezi (Rio Grande do Norte, Brazil), Jackson Claudio Lima, Maria Lira, Esmivani Lhara Freitas Castro, Vanessa R Resqueti</td>
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<th>PA3220</th>
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<td>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</td>
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<th>PA3223</th>
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<th>PA3224</th>
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<td>Akinori Ebihara (Tokyo, Japan), Asuka Nagai, Tokuzen Iwamoto, Ichiro Kuwahara</td>
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**Pre-congress content**

**Session 212** 00:00 - 23:59

### E-poster session: Novel insights into exercise training

**Disease(s):** Airway diseases, Interstitial lung diseases, Thoracic oncology, Respiratory critical care, Pulmonary vascular diseases

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

**Chairs:** Vinicius Cavalheri (Perth (WA), Australia), Jana De Brandt (Diepenbeek, Belgium)

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<th>PA3225</th>
<th>Effect of exercise training in intracellular cytokine and the relationship with clinical aspects in patients with COPD</th>
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<td>Juliana Uzeloto (Anhumas, Brazil), Alessandra Toledo-Arruda, Marjorie Golim, Bruna Silva, Aline Braz, Fabiano Lima, Isis Grigoletto, Ercy Ramos</td>
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<td>Flavia Rossi Caruso (Sao Carlos (SP), Brazil), Cassandra Luz Goulart, José Carlos Bonjorno Junior, Adriana García Sanches Araújo, Renata Gonçalves Mendes, Audrey Borghi-Silva</td>
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<th>PA3227</th>
<th>Addition of functional exercises to conventional training in COPD: satisfaction and adherence</th>
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<td>Isis Grigoletto (Pirapozinho, São Paulo, Brazil), Fabiano De Lima, Juliana Souza Uzeloto, Dionei Ramos, Paulo Gomes, Carlos Augusto Camillo, Ercy Mara Cipulo Ramos</td>
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<th>PA3228</th>
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<th>Elastic resistance training in people with COPD: a systematic review and meta-analysis</th>
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<td>Fabiano Lima (Presidente Prudente (SP), Brazil), Vinicius Cavalheri, Bruna Silva, Isis Grigoletto, Juliana Uzeloto, Dionei Ramos, Carlos Augusto Camillo, Ercy Ramos</td>
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<td>Yen-Huey Chen, Chiao-Lan Cheng, Huang-Pin Wu, Hui-Ling Lin</td>
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<th>Influence of resistance training on heart rate variability in the difficult-to-control asthmatic patients.</th>
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<th>PA3233</th>
<th>Effectiveness of a home-based pre-habilitation program for lung transplant candidates.</th>
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<td>Tania Janaudis-Ferreira (Montréal (QC), Canada), Daniela Massierer, Nicholas Bourgeois, Agnes Rakel, Karina Prevost, Larry Lands, Charles Poirier</td>
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<th>The effect of pulmonary rehabilitation before bronchoscopic volume reduction on post-procedure clinical status and follow-up compliance</th>
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<td>Esra Pehlivan (Istanbul, Turkey), Demet Turan, Esra Yazar, Arif Balci, Erdoğan Çetinkaya</td>
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### 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, Maysa A. R. Brandao-Rangel, Renilion 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 Systemic Immune Response in Eutrophic Women
Anamei Silva Reis (São José dos Campos, Brazil), Anamei Silva-Reis, Maysa A. R. Brandao-Rangel, Renilion Moraes-Ferreira, Thiago G. Gibson-Alves, Victor H. S.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 (São Jose Dos Campos (SP), Brazil), Adriano A Da Silva, Daniel S Magalhães, José C Cogo

### Physical function in multimorbidity elderly patients undergoing major surgery
Monique Messaggi Sartor (Barcelona, Spain), Anael Barberan-Garcia, Manuel Lopez-Baamonde, Betina Campero, Barbara Romano-Andrioni, Pilar Hurtado, Silvia Teres-Belles, Antonio Lopez, Raquel Sebio, Josep Roca, Graciela Martinez-Palli

### 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/Glycopyrronium 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: TheTRI-D study.
Kai Michael Beeh (Wiesbaden, Germany), Piotr Kuna, Isabelle Vniaud, Alessandro Guasconi, Massimo Corradi, 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 López Causape, Pablo A Fraile Ribot, Antonio Oliver, Francisco De Borja Garcia Cosío

### The distribution of blood eosinophil count in the IMPACT South America population
Jose R Jardim (São Paulo, Brazil), Valentina Di Boscio, Gur Y Levy, Alejandro Raimondi, Adrian Lijavetzky, Laura Jotimliansky, Sally Kilbridge, Claudia Soares, David Lipson
**PA3249**
Stability of eosinophils in blood in patients with chronic obstructive pulmonary disease (COPD) and one hospital admission
Elena Garay Llorente (Barakaldo, Spain), Eva Taberner Huquet, Beatriz Gonzalez Quero, Laura Ansola Marlasca, Joseba Andia Iruarte, Borja Ortiz De Urbina Antia, Milagros Iriberrri Pascual, Patricia Sobradillo Ecenarro

**PA3250**
Stability of sputum and blood eosinophil levels in COPD
Augusta Beech (Manchester, United Kingdom), Simon Lea, Umme Kolsum, Natalie Jackson, Paul Hitchen, Sophie Wolosianka, Dave Singh

**PA3251**
The impact of eosinophil levels on current prescribing in COPD
Louise Ann Flint (Leeds, United Kingdom), Doytchin Dimov

**PA3252**
Burden of disease among exacerbating patients with eosinophil COPD treated with triple therapy in Spain
Esther Mariscal (madrid, Spain), Marc Miravitles, Guadalupe Sánchez, Andrea García, Maribel Cuesta, Estefany Uría, Bernardino Alcázar, Francisco García-Rio

**PA3253**
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)

**PA3254**
Evidence-implementation gaps in low- and middle-income countries’ COPD guidelines
Job F.M. van Boven (Groningen, Netherlands), Aizhamal Tabyshova, John R. Hurst, Joan B. Soriano, William Checkley, Erick Wan-Chun Huang, Antigona C. Trofor, Oscar Flores Flores, Patricia Alupo, Hongyi Zhang, Patricia Gianella, Tanara Ferdous, David Meharg, Jennifer Alison, Jaime Correia De Sousa, Maarten J. Postma, Niels H. Chavannes

**PA3255**
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 Valamparampil, Bipin Gopal

**PA3256**
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

**PA3257**
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

**PA3258**
Primary care management of asthma in Malaysia: findings of the Klang Asthma Cohort Study
Norita Hussein (Kuala Lumpur, Malaysia), Norita Hussein, S M Liew, Sihwa Clarice, Ahmad Ihsan Abu Bakar, Ee Ming Khoo, Hilary Pinnock, Yong Kek Pang, Asiah Kassim, Ping Yein Lee, Sazlina Sharif Ghazali, Ai Cheng Cheong, Azazmorsuzila Mohd Ahad, Rizawati Ramli, Izan Ishak, Bee Kiau Ho, Salbiah Mohd Isa, Harzana Harrun, Zuzana Aman, Anisat Nordin, Siew Foon Tan, Chiu Wan Ng, Karuthan Chinna

**PA3259**
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, Peymune Adab, Alex Enocon, Sheila Greenfield, Ivo Vlaev

**PA3260**
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,

**PA3261**
Tackling COPD misdiagnosis in primary care through integrated care
Ketan Patel (Coleschel, United Kingdom), Andy Dickens, Alice M Turner

**PA3262**
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, lida Vähätalo, Onni Niemelä, Hannu Kankaanranta
PA3263 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 McCarthy, Zee Nee Lim, Yong Kek Pang, Nik Sherina Hanafi, Norita Hussein, Ahmad Ihsan Abu Bakar, Aziz Sheikh

PA3264 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 Martínez-Bautista, Arturo Orea-Tejeda, Karen Santillán-Reyes, Guadalupe Lizzbett Luna-Rodríguez, Martha Elena Quintero Martínez

PA3265 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, Sazlina Shariff Ghazali, Ai Theng Cheong, Suhaizeli Abdullah, Azah Abdul Samad, Rizawati Ramli, Azainorsuzila Mohd Ahad, Hilary Pinnock, Sheikh Aziz

PA3266 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 Beh

PA3267 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 Seffon, Kate Mottershead, Sonika Jalota, Hannah Alderson

PA3268 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

PA3269 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

PA3270 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

PA3271 COPD diagnosis and treatment in the primary care setting: adherence to GOLD guidelines is far away
Ioanna Tsiouprou (Athens, Greece), Dionisios G. Spyratos, Diamantis Chloros, Dionisia Michalopoulou, Konstantinos Christoglou, Lazaros Sichletidis

PA3272 Selection of patients with chronic obstructive pulmonary disease for participation in self-management programs.
Lidiya Koukol (St. Petersburg, Russian Federation)

PA3273 Major global discrepancies in guidelines for sore throat (acute pharyngitis)
Graca Coutinho (Slough, United Kingdom), Graca Coutinho, Martin Duerrden, Aurelio Sessa, Attila Altiner, Sergio Caretta-Barradas

Pre-congress content Session 215 00:00 - 23:59

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)

PA3274 Late Breaking Abstract - Differences in forced oscillation measurements in different ventilatory defects
Sabina Kostorz-Nosal (Tarnowskie Góry, Poland), Dariusz Jastrzębski, Dariusz Ziora

PA3275 Automated volumetric quantification of lung emphysema: comparative analysis of different software products results.
Nadezda Griva (Saint-Petersburg, Russian Federation), Pavel Gavrilov

PA3276 Triple therapy with Fluticasone furoate/Umeclidinium/Vilanterol compared with dual bronchodilator or triple therapy with inhaled corticosteroids/dual bronchodilator in patients with chronic obstructive pulmonary disease
Naoko Harada (Kawasaki, Japan), Kengo Otsuka, Atsuo Horiuchi, Yoko Shinka, Hiroyuki Yamamura, Naoki Miyao

PA3277 The clinical characteristics of eosinophilic chronic obstructive pulmonary disease: A cohort study
Ying Ju Lin (Yunlin County, Taiwan), Shu-Hua Chang, Yen-Fu Chen

PA3278 The clinical importance of centrilobular enfisema in COPD patients: its impact on the BODE index.
Rosa Plana Bolba (Ileid, Spain), Anna Montcusi Moix, Sally Santisteve, Juan Pablo De Torres Tajes, Ferran Barbe Illa, Jessica González Gutiérrez
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<td>The differences between Helium Dilution and Body Plethysmography and its relationship with airway resistance</td>
<td>Michela D'Ascanio (Roma (RM), Italy), Fausta Vincenzo, Noemi Calabro, Dario Pizzirussi, Giulio Guerrieri, Claudia Salvucci, Alberto Ricci</td>
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<td>PA3280</td>
<td>The role of neutrophil/lymphocyte ratio in acute exacerbations of chronic obstructive pulmonary disease (COPD)</td>
<td>Bogdana Basina (Dnipropetrovsk, Ukraine), Ludmila Konopkina</td>
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<td>PA3281</td>
<td>Sputum rheology and bacteriology in stable and exacerbated chronic obstructive pulmonary disease</td>
<td>Wei-Chih Chen (Taipei, Taiwan), Desiree Schumann, Michael Tam, Daiana Stolz</td>
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<td>PA3282</td>
<td>Relationship between serum levels of testosterone and the severity of chronic obstructive pulmonary disease</td>
<td>Azza Slim (Tunis, Tunisia), Abir Hedheli, Meriem Mjdi, Yassine Ouahchi, Sana Cheikh Rouhou, Jouda Cherif, Sonia Toujani, Samira Merai</td>
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<td>PA3283</td>
<td>Prognostic markers of COPD patients followed by 10 years in a specialized center in Brazil.</td>
<td>Julia Fortes Crê (Cotia, Brazil), Ana Carolina Borges Amaral, Luis Otavio Buassali Fredini, Leonardo Polito Bianchini, Soraia Quanta Damião, Ana Julia Consoli Alvarez, Guilherme Meira Sacardo, Elie Fiss, Monica Silveira Lapa</td>
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<td>PA3284</td>
<td>Prediction of vascular-platelet hemostasis disorders in patients with chronic obstructive pulmonary disease (COPD)</td>
<td>Lyudmyla Konopkina (Dnipropetrovsk, Ukraine), Yuliia Huba, Viktoria Yakovleva</td>
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<td>PA3285</td>
<td>Radiological prevalence of emphysema on low dose computed tomography (LDCT) in ever-smokers with a normal spirometry</td>
<td>Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Aditi Joshi, Reyma Raju, Ashok Mahashur</td>
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<td>PA3286</td>
<td>The Extended Salford Lung Study: an EHR-based extension of the SLS trials</td>
<td>Jeanne Pimenta (Middlesex, United Kingdom), Wilhelmine Meeraus, Richard Yeatman, Alan Barth, Tanith Hjelmbjerg, Jamila Astrum, Loretta Jacques, Sheila McCorkindale, Mark Fry</td>
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<td>PA3287</td>
<td>Low level of serum free triiodothyronine can be a predictor of long-term mortality after COPD exacerbations</td>
<td>Paulina Laskowska (Łódź, Poland), Joanna Milkowski-Dymanska, Piotr Lacwik, Sebastian Majewski, Pawel Górska, Wojciech J. Piotrowski, Adam J. Bialas</td>
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<td>PA3288</td>
<td>Prevalence of infradiagnosis of COPD in women by screening with a portable COPD-6 device in Primary Care</td>
<td>Miguel Santibáñez (Santander (Cantabria), Spain), Juan Carlos Lopez Caro, Estibaliz Arroita, Jesús Sainz, Francisca Gómez, Pablo González, Nicanor Valle, Mariano Rodríguez, Margarita Hierro, M Concepción Astruga, Montse Gonzalez, Juan Luis García-Rivero</td>
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<td>PA3289</td>
<td>Benralizumab effectiveness on quality of life of severe eosinophilic asthma in real life</td>
<td>Carla Maria Irene Quarato (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Mariapia Venuti, Santamaria Sonia, Fuso Paolo, Maria Cristina Colanardi, Giovanna Elisiana Cappagnano, Maria Pia Foschino Barbaro</td>
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<td>PA3290</td>
<td>TLCO is associated with phenomenological ageing markers in COPD patients of the COSYCONET cohort</td>
<td>Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Aditi Joshi, Reyma Raju, Ashok Mahashur</td>
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<td>PA3291</td>
<td>Cognitive decline following an acute exacerbation of COPD (AECOPD)</td>
<td>Grace France (Leicester, United Kingdom), Mark W Orme, Neil J Greening, Michael C Steiner, Sally J Singh</td>
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Pre-congress content  Session 216  00:00 - 23:59

E-poster session: Scientific advances in airway pharmacology

**Disease(s):** Airway diseases  Respiratory critical care  Respiratory intensive care  General respiratory patient care  Pulmonary function testing  Surgery

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

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Loes E. M. Kistemaker (Groningen, Netherlands)

**PA3292**  Late Breaking Abstract - Inhaled corticosteroids in bronchiectasis is associated to increased morbidity, Pseudomonas colonization and clinical manifestations of COPD patients: is there a relationship?  Elena Klüster (Barnaul (Altai Region), Russian Federation), Alexandra Balitskaya, Karolina Klüster, Alexander Zharikov, Maria Nikolayeva, Valeriy Elykomov

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**PA3293**  Late Breaking Abstract - Inhaled corticosteroids in bronchiectasis is associated to increased morbidity, Pseudomonas colonization and clinical manifestations of COPD patients: a five-year prospective cohort study  Kjell Erik Julius Håkansson (København N, Denmark), Katrine Fijallegaard, Andrea Browatzki, Melda Sin, Charlotte Suppli Ulrik
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-Rzepa, Krzysztof Pociecha, Artur Świerczek, Elżbieta Wyska, Paulina Koczurkiewicz-Adamczyk, Elżbieta Pekala, 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 Kögler, 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 Jelínková, Vladimír Rotrekli, Kristián Brat

Transient receptor potential vanilloid 4 channels mediate resistive breathing-induced acute lung injury.
Dimitrios Toumpanakis (Athens, Greece), Athanasia Chatzianastasiou, Vryonina Vassilakopoulou, Eleftheria Mizi, Stamatiou Theocharís, Theodoros Vassilakopoulos

Resolvin E1 and E3 dampens asthmatic inflammation in a murine model
Makiko Sato (Gunma, Japan), Haruka Aoki-Saito, Masakiyo Yatomi, Hiroaki Tsurumaki, Yasuhiko Koga, Noriaki Sunaga, Toshitaka Maeno, Kunio Dobashi, Satoshi Shuto, Masataka Yamada, Takeshi 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 CD63 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, Thomais Markou, Annika Borde, Anders Cavallin, Therese Ericsson, Ramon Hendricks, Ann Aurell Holmberg, John Steele, Maria Belvisi, Mark Birrell

In vitro and in vivo characterisation of the novel neutrophil elastase inhibitor BI 1332495
Stefan Kreideweiss (Biberach, Germany), Annette Schulter-Metz, Christian Gnamm, 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, Shinichi Gamó, Masayuki Nara, Hisatoshi Sugirua, Masakazu Ichinose

Beclometasone, formoterol and glycopyronium: effect on an ex vivo model of COPD exacerbation
Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritondo, 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 Moreli Lopes Gonçalves João, Jessica Anastácia Silva Barbosa, Luana Laura Sales Da Silva, Tabata Maruyama Dos Santos, Leandr Do Nascimento Camargo, Elaine Cristina De Campos, Thiago Tafarel Galil, Beatriz Manguiera Saraiva- Romanhola, Suellen Karoline Moreira Bezerra, Sara Sumie 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 Eklof, Mariamne 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 Sponevello (Milan, Italy)
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<td>PA3309</td>
<td>Late Breaking Abstract - Biological determinants of sputum rheology in chronic airway diseases</td>
<td>Jérémy Charriot (Montpellier Cedex 5, France), Mathilde Volpato, Jérôme Vialaret, Christophe Hirtz, Carey Suehs, Eric Matzner-Lober, Isabelle Vachier, Nicolas Molinari, Arnaud Bourdin</td>
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<td>PA3310</td>
<td>Exogenous HSP60 stimulates airway smooth muscle cell remodeling via MAPK p38 pathway</td>
<td>Junling Li (Basel, Switzerland), Lei Fang, Daiana Stolz, Michael Tamm, Michael Roth</td>
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<td>PA3311</td>
<td>Adipokine mediators in asthma and COPD are affected by sex and age</td>
<td>Lars I. Andersson (Stockholm, Sweden), Anna James, Sven-Erik Dahlen, Apostolos Bossios, On Behalf Of The Bioair Consortium</td>
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<td>PA3312</td>
<td>Correlation of serum Matrix metalloproteinase-9 and clinico-functional parameters in COPD patients</td>
<td>Sanja Dimic-Janje (Beograd, Republic of Serbia), Branislava Milenkovic, Mihailo Stjepanovic, Jelena Jankovic, Jelena Cvejic, Ivan Milivojevic</td>
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<td>PA3313</td>
<td>Endothelial injury in COPD assessed by microalbuminuria (MAB) and von Willebrand factor levels (vWF:Ag) and activity (vWF:Ac)</td>
<td>Athanasios Konstantinidis (Ioannina, Greece), Christos Chronis, Christos Kyriakopoulos, Evaggelia Papapetrou, Christina Tsaousi, Athina Tatsioni, Athina Gogali, Christos Katsanos, Katerina Vaggeli, Vanessa Bellou, Maria Kosta, Aggeliki Sapanou, Charikleia Tselepi, Alexandros Charisis, Georgios Daskalopoulos, Stavros Constantopoulos, Konstantinos Kostikas</td>
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<td>PA3314</td>
<td>Establishing normal ranges for induced sputum cell counts in Singapore</td>
<td>Yu Ling Ng (Singapore, Singapore), Tunn Ren Tay, Mariko Siyue Koh, Xue Ning Choo, Anthony Yee</td>
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<td>PA3315</td>
<td>How different operators performing sputum eosinophil differential cell counts may affect clinical decisions for severe asthma patients.</td>
<td>Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Phillipa Aspin, Stephen, J Fowler, David Allen, Robert Niven</td>
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<td>PA3316</td>
<td>Eosinophil-derived neurotoxin concentrations indicate lower circadian variation than eosinophils in healthy volunteers and patients with asthma</td>
<td>Simon Young (Baddiley, United Kingdom), Farhat Syed, Nisha Kurian, Bert Rutten, Rikard Isaksson, Adam Platt, Glen Hughes</td>
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<td>PA3317</td>
<td>Comparison of demographic, functional and inflammatory features between atopic and non atopic asthmatics. Retrospective study on a large cohort of patients.</td>
<td>Sara Gerday (Liège, Belgium), Florence Schleich, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis</td>
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<td>PA3318</td>
<td>Streptococcus pneumoniae augments inflammatory process in asthma model without changing Th2 profile</td>
<td>CLARICE ROSA OLIVO (SAO PAULO, Brazil), Roseane M. Laia, Thamyres B.P Castro, Camila A. Santos, Beatriz M. Saraiva-Romanholo, Maria Leonor S. Oliveira, Eliane N. Miyagi, Iolanda F.C.L. Tiberio</td>
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<td>PA3319</td>
<td>Correlation between Blood Eosinophilia and Fractional Exhaled Nitric Oxide in the diagnosis of Asthma within Primary Care.</td>
<td>Lesley Farrell (, United Kingdom), Sudip Ghosh, Gailash Panray</td>
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<td>PA3320</td>
<td>The association between airway and systemic eosinophilia and symptoms and exacerbations differ between asthma and COPD patients</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Uffe Bödtger, Kerstin Romberg, Leif Bjerner, Jonas Erjefält, Karsten Kristiansen</td>
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<td>PA3321</td>
<td>Lower muscle mass is related to poorer clinical outcomes in moderate to severe asthma</td>
<td>Edith Visser (Leeuwarden, Netherlands), Ari-Jan Azad, Tim Van Zutphen, Huib Kerstjens, Anneke Ten Brinke, Kim De Jong</td>
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<td>PA3322</td>
<td>Distribution of T2 markers in real-life patients with asthma, COPD and asthma+COPD from the BREATHE study</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Laurits Frossing, Alexander Silberbrandt, Uffe Bödtger, Kerstin Romberg, Leif Bjerner, Jonas Erjefält, Karsten Kristiansen</td>
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<td>PA3323</td>
<td>Relationship between clinical and radiological signs of bronchiectasis in COPD patients: Results from COSYCONET</td>
<td>Kathrin Kahnert (München, Germany), Rudolf Jöres, Hans-Ulrich Kauczor, Bertram Jobst, Jürgen Biederer, Frank Bieritz, Peter Alter, Jürgen Behr, Pontus Mertsch, Franziska Trudzinski, Robert Bals, Tanja Lucke, Henrik Watz, Claus Vogelmeier, Tobias Welte</td>
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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

Disease(s): Airway diseases

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

Chairs: Arietta Spinou (London, United Kingdom), Michal Shteinberg (Haifa, Israel)

Salivary SLPI and disease severity in bronchiectasis

Lidia 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), Marleen Bakker, Lieke Kamphuis, Alain Vincent François Dubois, Rogier A S Hoek, Joachim G J V Aerts, Menno E Van Der Eerden

Alpha-1 antitrypsin deficiency in patients with bronchiectasis: data from the European Bronchiectasis Registry EMBARC


Factors associated with one-year mortality in hospitalized patients with exacerbation of bronchiectasis.

Giulia Sciscio (Lucera (FG), Italy), Rosanel Amaro, Victoria Alcaraz-Serrano, Albert Gabarrus, Laia Fernandez-Barat, Patricia Oscanoa Huamán, Rosario Menendez, Raul Mendez, Maria Pia Foschino Barbaro, 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 Soyza, Wim G Boersma, Josje Altenburg, James D Chalmers

Results of Tobramycin inhalation therapy in patients with noncystic fibrosis bronchiectasis with Pseudomonas Aeruginosa colonization: Real Life Management

Elif Tanriverdi (Istanbul, Turkey), Binnaz Zeynep Yildirim, Sule Gul, Efsun Gonca Ugur Chousein, Demet Turan, Halit Cinarka, Mehmet Akif Ozgul, Erdogan Cetinkaya

PA3334
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), Costas Mantzouranis, Despina Melemeni, Georgios Patsinis, Dimitrios Mermigkis, Agathi Lekkakou, Evgenia Karakou, Rea Chatzikyriakou, Nikolaos Trakas, Xanthi Tsiafaki

What’s important for people with NTM? An EMBARC-ELF patient survey

Michel Shteinberg (Haifa, Israel), Jeanette Boyd, Bridgette Harris, Pieter Goeminne, Amelia Shoemark, Josje 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, Chi-Hsiin Yeh, Chun-Hua Wang, Hong-Chyuan Lin

The level of MDA in BALF might reflect oxidative tissue damage in patients with mild MAC pulmonary disease.

Shuji Oh-Ishi (Naka-gun, Japan), Kenji Nemoto, Hisayuki Oshima, Kai Kawashima, Yuki Yabuuchi, Takaumi Shima, Yuka Kitaoka, Hitomi Hirano, Naoki Arai, Kentaro Hyodo, Atsuko Nakazawa, Jun Kanazawa, Yukiko Miura, Shingo Usui, Kenji Hayashi, Shimao Fukai, Takefumi Saito

The difference of airway microbiota between nontuberculous mycobacteria lung disease and bronchiectasis

Chin-Chung Shu (Taipei, Taiwan)

Non-tuberculous mycobacteria: five year experience

Marilena Conceição (Covilhã, Portugal), Angela Dias Cunha, Rita Ferro, Sónia Guerra, Joana Batista Correia, António Reis, António Simões Torres

Pre-congress content

Session 219  00:00 - 23:59

E-poster session: Translational therapeutic advances

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 - Mappi ng fibroblast activity in IPF – the instructive lung ECM

Anna Löfdahl (Lund, Sweden), Linda Eloeraossen Rendi, 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 Piscaer, Loes E.M. Kistemaker, Renoud Gosens, 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 Petracca, Janick Stucki, Fabian Käsemann, Nina Hobi
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<td>PA3347</td>
<td>Combined cell therapy and anticoagulants for acute respiratory distress syndrome</td>
<td>Marta Camprubí-Rimblas (Molins de Rei, Spain), Aina Areny, Raquel Guillamat-Prats, Luis Morales-Quinteros, Neus Tantinyà, Josep Bringüé, Lluís Blanch, Antonio Artigas</td>
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<td>PA3348</td>
<td>LSC - 2020 - PSTAT5-SOCS1 signalling as a novel pathway in macrophage metabolic reprogramming by Mesenchymal Stromal Cells (MSCs) in ARDS</td>
<td>Yue Su (Belfast (Northern Ireland), United Kingdom)</td>
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<td>PA3349</td>
<td>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</td>
<td>Andreas Jahn (Palma De Mallorca, Spain), Carlos Rio, Aina Martin-Medina, Amanda Iglesias Coma, Josep Mercader Barcelò, Orlando Gigirey, Christina Villena, Ernest Sala Linas</td>
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<td>PA3350</td>
<td>CCR2: A potential target for lung injury resolution&gt;</td>
<td>Andres Felipe Villabona-Rueda (Baltimore, United States of America), Qiong Zhong, Ye Xiong, Tsai Palmer, Franco D’Alessio</td>
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<td>PA3351</td>
<td>Azithromycin maintains barrier integrity in a cell model of ventilator induced lung injury</td>
<td>Jon Joelsson (Garðabær, Iceland), Ivona Myszor, Sneaev Sigurdsson, Fredrik Lehmann, Clive Page, Gudmundur Gudmundsson, Thorarinn Gudjonsson, Sigurbergur Karason</td>
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<td>PA3352</td>
<td>Transforming growth factor beta (TGF-β) pathway activation by IPF fibroblast-derived soluble factors is mediated by IL-6 trans-signaling</td>
<td>Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Elizabetha Brook, David Shitrit</td>
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<td>PA3353</td>
<td>Growth hormone releasing hormone-receptor antagonist MIA-602 modulates lung inflammation, cellular signal transduction, and promotes apoptosis of mouse lung fibroblasts</td>
<td>Jason Zhang, Roger Cui, Tian Runxia, Ren-Zhi Cai, Mehdi Mirsaeidi, Andrew Schally, Robert M. Jackson</td>
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<td>PA3354</td>
<td>6-aminonicotinamide ameliorates pulmonary fibrosis by suppressing the TGF-beta1 activated Smad signalling pathway</td>
<td>Jin Woo Song (Seoul, Republic of Korea), MIAE KIM, Hak-Su Kim, Su-Jin Moon, Hyun Ju Yoo</td>
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<td>PA3355</td>
<td>Antifibrotic effects of nintedanib on lung fibroblasts derived from patients with progressive fibrosing interstitial lung diseases</td>
<td>Audrey Joannes (RENNES, France), Claudie Morzadec, Francisco Llamas Gutierrez, Dan Cristian Chiforeanu, Bertrand Richard De Latour, Lutz Wollin, Stéphane Jouneau, Laurent Vernhet</td>
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<td>PA3356</td>
<td>Profibrotic implication of platelet-activating factor in tuberculous pleural effusion</td>
<td>Chi-Li Chung (Taipei, Taiwan), Mei-Chuan Chen, Jie-Heng Tsai, Cheng-Ying Hsieh</td>
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<td>PA3357</td>
<td>SDF-1 is an antifibrotic mediator in vivo</td>
<td>Amiq Gazdhar (Schliern b. Köniz, Switzerland), Kleanthis Fytianos, Ronja Schliep, Sofia Mykoniat, Petra Khan, Katrin Hostettler, Lars Knudsen, Thomas Geiser</td>
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<td>PA3358</td>
<td>Curcumin alleviates alveolar apoptosis and epithelial mesenchymal transition in bleomycin induced lung injury and fibrosis through IL-17A and TGFβ1 pathways</td>
<td>Yashodhar Bhandary (Derlakatte, Dakshina Kannada, South Karnataka, India), Manesh Gouda, Sadiya Shaikh, Ashwini Prabhu, Mohd Altaf Najjar, Ts Keshava Prasad, Irfan K, Prashant K Modi</td>
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<td>PA3359</td>
<td>FGF14 has pro fibrotic properties in Idiopathic Pulmonary Fibrosis</td>
<td>Mada Ghanem (Paris, France), Aurélien Justet, Madeleine Jaillot, Mouna Hachem, Tiara Boghman, Aurélie Vadel, Arnaud Mailleux, Bruno Crestani</td>
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<td>PA3360</td>
<td>Fibrosis-specific stem-like cells in peripheral IPF lung: Characteristics and potential role</td>
<td>Katrin Esther Hostettler (Basel, Switzerland), Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Amiq Gazdhar, Thomas Geiser, Michael Tammi</td>
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<td>PA3361</td>
<td>LSC - 2020 - The transcriptome of IPF fibrotic foci identifies the fatty acid metabolism as a critical pathway in fibrogenesis</td>
<td>Yue Su (Belfast (Northern Ireland), United Kingdom)</td>
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PA3362 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

PA3363 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 Escudière, Laure Gibault, Frederique Capron, Pierre-Yves Brillot, Philippe Grenier, Xavier Jeunemaitre, Elie Mousseaux, Michael Frank, Olivier Sanchez

PA3364 Digital tomosynthesis in diagnostics and monitoring of chronic obstructive pulmonary disease
Irina Sincarenco (Chisinau, Republic of Moldova), Nicolae Nalivaico, Anna Moscovciuc, Valentina Bolotnicova

PA3365 Impact of Computed Tomography during Chronic Obstructive Pulmonary Disease Exacerbation
rihab JEBALI (ARIANA, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Nouha Guediri, Hafiaou Doghfoûs, Fatma Tritar

PA3366 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

PA3367 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

PA3368 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, Ibtihel Khouaja, Amel Khattab, Ines Zendah, Habib Ghedira

PA3369 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

PA3370 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
Diseases: Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Methods: General respiratory patient care, Cell and molecular biology, Physiology, Public health, Imaging, Epidemiology
Chairs: Argyris Tzouvelekis (Athens, Greece)
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, Nobuhiro Naito, Kozo Kagawa, Kazuya Koyama, Hiroshi Kawano, Kazuaki Tanigawara, Wataru Toriumi, Yasuhiro Nishioka

PDGFRα and αSMA mark two distinct mesenchymal cell populations involved in parenchymal and vascular remodeling in pulmonary fibrosis.
Valentina Bisin (Graz, Austria), Slaven Crnkovic, Anita Sahu-Osen, Anna Birnhuber, Elie El Agha, Katharina Sinn, Walter Klepetko, Andrea Olschewski, Saverio Bellusci, Leigh M. Marsh, Grazyyna 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 Elowsson 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 nonspecific interstitial pneumonitis (NSIP) – strong positive correlation with bronchoalveolar lavage (BAL) neutrophil count.

Piotr Kopinski (Bydgoszcz, Poland), Tomasz Wandtke, Tomasz Senderek, Ewelina Wędrowska, Joanna Golińska, Karina Szabłowska, 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 Moukis, Aglaia Pozantzis, Konstantina Rossi, Anna-Maria Psarra, Sotiros Sinis, Foteini Bardaka, Foteini Malli, Konstantinos Gourgoulianis, Zoe Danili

What cells are replacing the epithelium in cystic remodeling in UIP and COPD

Florian Gallob (Austria), Luka Bricic, 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, Aef Neghd, Ridha Ben Ali, Mona Mlika, Saloua Jameleddine

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 iMScope 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, Yasuhiko Nishioka

The pulmonary microbiome and immunological activity in IPF patients.

Kristel Svalland Knudsen (Bergen, Norway), Sverre Lehmann, Pieter 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 Shenoy 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 Keskitalo, Hannu Vähäniikkilä, 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 Soccio, 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 Hájková, Mordechai Kramer, Jasna Tekavec-Trkanjec, Michael Studnicka, Natalia Stoeva, Biserka Jovkova Kaeva, Simona Littnerová, Marina Roksandić Milenković, Martina Vasičková

Pre-congress content  Session 222  00:00 - 23:59

E-poster session: Addressing unresolved questions in rare diffuse parenchymal lung diseases: interdisciplinary research is the key

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

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

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<td>Incidence and prevalence of Systemic Sclerosis-associated Interstitial Lung Disease in a multicenter prospective cohort study.</td>
<td>Els Vandecasteele (Ghent, Belgium), Karin Melsens, Daniel Blockmans, Charlotte Carton, Filip De Keyser, Ellen De Langhe, Bernard Lauwerys, Yves Piette, Amber Vanhaecke, Koen Veerbeke, Wim Wuyts, Guy Brusselle, Vanessa Smith</td>
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<td>PA3393</td>
<td>Effects of nintedanib in patients with SSC-ILD and preserved and highly impaired lung function</td>
<td>Wim A Wuyts (Leuven, Belgium), Arata Azuma, Jörg H W Distler, Klaus Sondergaard, Susanna Proudman, Vincent Cottin, Elvira Erhardt, Manuel Quaresma, Martina Gahlmann, Margarida Alves, Toby M Maher</td>
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<td>PA3394</td>
<td>FVC decline in patients with SSC-ILD by use of anti-acid therapy</td>
<td>Michael Kreuter (Heidelberg, Germany), Hilario Nunes, Gerard J Criner, Petros Sfikakis, Wendy Stevens, Corinna Miede, Manuel Quaresma, Margarida Alves, Ganesh Raghu</td>
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<td>PA3395</td>
<td>Relationship between interstitial pneumonia related systemic sclerosis and esophageal motility abnormalities</td>
<td>KENICHIRO HARA (Maebashi, Gunma, Japan), Kouichi Yamaguchi, Masakiyo Yatomi, Hiroaki Tsurumaki, Takeshi Hisada, Toshiaki Maeno</td>
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<td>PA3396</td>
<td>Interstitial lung disease with ANCA-associated vasculitis (AAV-ILD): Clinical features and survival compared to patients with ILD associated with systemic sclerosis and IPF</td>
<td>Felipe Reyes (Peñalolén, Chile), Silvana Saavedra, Karen Vergara, Pamela Wurmann</td>
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<td>PA3397</td>
<td>Lung involvement in primary biliary cholangitis (PBC)</td>
<td>Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Michael Kalashnikov, Denis Konovalov, Alisa Yanakaeva, Sergey Moiseev</td>
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<td>PA3398</td>
<td>Effect of anti-IL-17 biologics on K-L-6 level and coexisting interstitial pneumonias in patients with psoriasis</td>
<td>Hiromichi Hara (Tokyo, Japan), Hanae Miyagawa, Jun Araya, Shunsuke Minagawa, Takanori Numata, Yoshinori Umezawa, Akihiko Asahina, Kazuyoshi Kuwano</td>
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<td>PA3399</td>
<td>Clinical characteristics of lymphangioleiomyomatosis and application of a novel automated cyst burden score</td>
<td>Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Joseph Morrow, Alan Kelly, Aurelie Fabre, Jonathan Dodd, Michael Keane, David Murphy, Cormac McCarthy</td>
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<td>PA3400</td>
<td>Comparison of pulmonary function tests (PFTs) and 6-minute walk test (6MWT) in patients with lymphangioleiomyomatosis (LAM)</td>
<td>Rémi Diesler (Lyon, France), Vincent Cottin, Ségalène Turquier, Mouhamad Nasser, Kais Ahmad, Julie Traclet, Jean-Charles Glerant</td>
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<td>PA3401</td>
<td>Design of phase II, randomized, placebo-controlled study of loratadine associate with rapamycin in patients with lymphangioleiomyomatosis (LAM)</td>
<td>Jaume Bordas-Martinez (Barcelona, Spain), Carmen Herranz, Vanesa Vicens-Zygmunt, Antonio Román, Cristina Berastegui, Piedad Ussetti, Rosalía Laporta, Julio Ancocrea, Claudia Valenzuela, Alvaro Casanova, Emilio Ansótegui, Jose Antonio Rodríguez-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</td>
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<td>PA3402</td>
<td>Birt Hogg-Dubé syndrome in Poland</td>
<td>Elżbieta Radzikowska (Warszawa, Poland), Lucyna Opoka, Jolanta Winek, Katarzyna Blasińska, Elżbieta Wiatr</td>
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<td>PA3403</td>
<td>Pivotal role of the HMGB1/SRAGE axis in drug-induced lung injury in advanced lung cancer with pre-existing interstitial lung disease</td>
<td>Satoshi Nakao (hiroshima, Japan), Yamaguchi Kakukuro, Shinjiro Sakamoto, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Hiroshi Ishimato, Shinichiro Ohshima, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori</td>
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<td>PA3404</td>
<td>Clinical characteristics of a Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH) Cohort</td>
<td>Margaret Gleeson (Limerick, Ireland), Aurelie Fabre, Dermot O’ Toole, Rachel Crowley, David Murphy, Cormac McCarthy</td>
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<td>PA3405</td>
<td>Effectiveness of chemotherapy treatment for patients with pulmonary Langerhans cell histiocytosis during long-term follow-up</td>
<td>Arina Zinchenko (St. Petersburg, Russian Federation), Lubov’ Novikova, Mikhail M. Ilkovich</td>
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<td>PA3406</td>
<td>Mini-whole lung lavage to treat pulmonary alveolar proteinosis (PAP)</td>
<td>Elena Salvaterra (Riva Del Garda (TN), Italy), Sara Lettieri, Francesca Mariani, Davide Piloni, Federica Meloni, Iaria Campo</td>
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<td>PA3407</td>
<td>Novel method of whole lung lavage therapy using biphasic cuirass ventilator for pulmonary alveolar proteinosis; the retrospective observational study</td>
<td>daisuke tamanoi (kumamoto-shi, Japan), Chieko Yoshida, Toshiki Kimura, Takayuki Jodai, Tatsuhiro Isimura, Shinichiro Okamoto, Hidenori Ichiyasu, Tatsuro Yamamoto, Takuro Sakagami</td>
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A single-centre retrospective study to phenotype unclassifiable interstitial lung disease
Laura Fabbri (Nottingham, United Kingdom), Moulhamad Nasser, Kais Ahmad, Julie Traclet, Vincent Cottin

Comorbidities in unclassifiable interstitial lung disease
Charlotte Hyldgaard (Åbyhøj, Denmark), Sebastiano Torrisi, Sissel Kronborg-White, Claudia Ganter, Elisabeth Bendstrup, Michael Kreuter

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

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

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

Chairs: Marieke L. Duiverman (Groningen, Netherlands), Dimitrios Toumpanakis (Athens, Greece)

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, Daugshagini Taylor, David Colville, Allan Cameron, Pauline Grose, Joris Van Der Horst, Douglas Cowan, Mark Cotton

1-Year mortality in patients with home mechanical ventilation
Roy T.M. Sprooten (Cadien en Keer, Netherlands), Bettine A.H. Visser, 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 (Pesoa da Rêgua, 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 (Bucuresie, Romania), Mihai Gologanu, Daniela Necula, Roberto Dongill, Elisa Boni, Laura Falsini, Viviana Ribuffo, Alessandro Marchioni, Lara Pisani, Stefano Nava, Enrico Cini

Onset and clinical predictors of delirium in patients undergoing non-invasive mechanical ventilation for acute respiratory failure - NIVILITUM multicenter trial
Luca Tabbi (MODENA, Italy), Roberto Tononi, Ivana Castaniere, Riccardo Fantini, Sara Sorgentone, Maria Cristina Paonessa, Marianna Sacchi, Antonella Spacone, Roberto Dongilli, Elisa Boni, Laura Falsini, Viviana Ribuffo, Alessandro Marchioni, Lara Pisani, Stefano Nava, Enrico Cini

High Flow Nasal Therapy (HFNT) in Pediatric patients at the Home
Adel Bougatef (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 Sagie, Keren Armoni Domany, Israel Amirav

Integrated Respiratory Care for Patients on Prolonged Home mechanical Ventilation: Preliminary Results of the CA1 Vent Program
Margárida Torres Redondo (Matosinhos, Portugal), Daniela Rodrigues, David Araujo, Tiago Pinto, Arnaldo Fernandes, Carol Pinto, Pedro Pinheiro, Manuela Sousa, Antonio Loureiro, Paulo Costa, Teresa Homr, Miguel Gonçalves

HOW OUR AMYOTROPHIC LATERAL SCLEROSIS PATIENTS DIE
Natalia Pascual Martinez (Cordoba, Spain), Maria Melgar Herrero, Cristina Gómez Repiso, Elisa Martinez Repiso

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 Wijnsstra, Marieke Duiverman

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 Schmor, Wolfram Windisch
Compliance to domiciliary noninvasive ventilation in stable hypercapnic COPD patients
Mariem Ferchichi (Tunis, Tunisia), Hafoua Daghfous, Amani Ben Mansour, Soumaya Ben Saad, Fatma Tritar

Development of the Severe Respiratory Insufficiency application-a randomized controlled trial
Daniel Majorski (Cologne, Germany), Jens Callegari, Sarah Schwarz, Friederike Magnet, Tim Mathes, Hüseyin Ates, Rebar Ahmad, Navid Fazel, Wolfram Windisch

Objective sleep quality is altered by the systematic adjunction 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

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

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

Adherence to Home Mechanical Ventilation over 10-Y ears: 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

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

Improving response times for acute non-invasive ventilation (NIV) set-ups
Max Thomas (Birmingham, United Kingdom), Pearlene Antoine-Pitterson, Alice Robinson, Bethany Jones, Anushka Shanmugarajah, 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)

Late Breaking Abstract - Abdominal Muscle Function During Spontaneous Breathing Trials to Predict Extubation Failure
Annia Fleur Schreiber (Torino (TO), Italy), Michele Bertoni, Benjamin Coifffard, Samira Fard, Jenna Wong, W. Darlene Reid, Laurent Brochard, Simone Piva, Ewan C. Goligher

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 Seeliger (Hannover, Germany), Robert Friedrich, Michael Döbler, Klaus Stahl, Julius J Schmidt, Heiko Schenk, Christian Kühn, Johann Bauersachs, Tobias Welte, Marius M Hoepen, 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 Meerssman, Joost Wauters, Alexander Wilmer, Rik Gosselin, Greet Hermans, Daniel Langer

ERS 2020 International Congress
Pre-congress content  Session 225  00:00 - 23:59

E-poster session: Pulmonary embolism and beyond

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)

**PA3448**  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 Zarisif, Adamantios Chloros

**PA3449**  Prevalence of Pulmonary Embolism Among Systemic Lupus Erythematosus Patients
Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milic, Vladimir Zugic
**How many patients recover from acute kidney injury after pulmonary embolism?**
Laurent Bertoletti (Saint Etienne Cedex, France), Martin Margier, Léa Fouillet, Edouard 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 Schwablmair, 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, Yasunori 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

**Clinical in-hospital mortality profile of pulmonary embolism**
Loreta Karaulli (Agollé) (Tirana, Albania), Juliana Gjerazi, Silvana Bala, Jul Bushati

**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, Panagioti-Elias EVT Polydorou, Dimitra Grapsa, Elias Kaimis, Konstantinos Syrigos

**Original, simplified, and modified pulmonary embolism severity indices in risk stratification of pulmonary embolism**
Maha Yousif (Menoufia Gavororate, Egypt), Sabah A. Hussein

**Factors associated with thromboembolic events in patients with pulmonary tuberculosis**
Abir Hedhli Ep Cherni (Tunis, Tunisia), Safa Marzouki, Meriem Mjid, Yacine Ouahchi, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujenni, Samira Merai

**Hydatid pulmonary embolism**
amina abdelkhir (ben arous, Tunisia), Imen Bouassida, Hazem Zribi, Asma Saad, Amani Ben Mansour, Sonia Ouerghi, 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 IN PSYCHOLOGICAL FACTORS BETWEEN PATIENTS WITH LEFT HEART FAILURE AND RIGHT HEART FAILURE ASSOCIATED WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez Hernández, Laura Arely Martinez-Bautista, Arturo Orea-Tejeda, Karen Aide Santillán-Reyes, Guadalupe Lizzbette Luna-Rodriguez, Yael Ramiro Gastelum Ayala

**Endothelin-1 gen (EDN1) regulating miRNAs are downregulated in Idiopathic Pulmonary Arterial Hypertension**
Adolfo Baloira Villar (Pontevedra, Spain), Mauro Lago Docampo, Carlos López, Carlos Vilarinho, Joan Albert Barberá, Isabel Blanco, Diana Valverde

**Differences of functional capacity between patients with left heart failure and righthear failure associated with chronic pulmonary diseases**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arley Martínez, Viridiana Peláez Hernández, Arturo Orea Tejeda, Rocío Sánchez Santillán, Karen Santillán Reyes, Karla Leticia Rosales Castillo, Guadalupe Lizzbette Luna Rodriguez, Manuel Abraham Gomez Martinez

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**Pre-congress content**
**Session 226**

**E-poster session: Current and contemporary practices in endobronchial ultrasound**
**Disease(s):** Thoracic oncology, Interstitial lung diseases, Airway diseases, Respiratory critical care

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

**Chairs:** Prashant Nemichand Chhajed (Mumbai, India)

**Late Breaking Abstract - The impact of COPD on hypercapnia during flexible bronchoscopy with EBUS-TBNA in analgesedation**
Daniel Strohleit (Essen, Germany), Erich Stoelben, Friederike Magnet, Thomas Galetin

**Safety and diagnostic yield of echobronchoscopy guided transluminal puncture**
Marwan Mohamed Choukri (Madrid, Spain), Andrés Giménez Velando, Francisco José Laso Del Hierro, Ainhoa Izquierdo Pérez, Andrés Mauricio Morales García, Javier Flandes Aldeytorriaga
PA3465 Variability of sedation controlled by pulmonologists during EBUS in Spain
Juan A. Cascón Hernández (Gijón, Spain), Blanca De Vega Sánchez, María Pavón Masa, Carmen Lucena Pozo, Lucía Ferreiro, Chunshao Hu Yang, Aurelio Luis Wangüemert Pérez, Francisco Muñiz González, Paola Antonella Benedetti, Ignacio Lobato Astiárraga, Beatriz Amat Humaran, Virginia Leiro Fernández

PA3466 Is EBUS sampling adequate for molecular testing in patients with advanced NSCLC?
Dawar Rizavi (Watford, United Kingdom), Thushara Bandara, Jaymin Morjaria

PA3467 An usefulness of combined endobronchial and endoscopic ultrasound-guided needle aspiration in the diagnosis of sarcoidosis: a prospective, multicenter trial
Maciej Gnass (Myślenice, Poland), Anna Filarecka, Jacek Wojtacha, Jerzy Soja, Juliusz Pankowski, Damian Czyżewski, Wojciech Zajączek, Arkadiusz Joks, Adam Cmiel, Artur Szlubowski

PA3468 Elasticography A Double-Edged Knife in Countries with High Prevalence Anthracosis
Arda Kiani (Tehran, Islamic Republic of Iran), Atefeh Abedini, Fatemeh Razavi, Mehrdad Farahani, Marzieh Hashemi, Habib Emami, Forouzan Mohammadi

PA3469 Balanced propofol-based analgosedation performed by pulmonologist in interventional procedures: an Italian"real-life" study
Rosalba Maffucci (Napoli (NA), Italy), Uberto Maccari, Carmela Martinez, Lucia Nardelli, Andrea Bianco, Raffaele Scala

PA3470 Endobronchial microcoil fiducial markers for stereotactic radiation therapy
Leslie Noirez (Lausanne, Switzerland), Alessio Casutt, Catherine Beigelman-Aubry, Maurizio Bernasconi, Remy Kinj, André-Dante Durham, Christophe Von Garnier, Alban Louis

PA3471 Comparative diagnostic accuracy of thoracic endosonography (EBUS/EUS-b) and integrated PET-CT in mediastinal staging of potentially operable patients with NSCLC.
Seraphim Chrysikos (Athens, Greece), Ioannis Gkiozos, Katerina Dimakou, Eleftherios Zervas, Theodoros Karampitsaks, Maria Anyfanti, Argyrios Tzouvelekis, Nikolaos Koulouri, Ioannis Vasilieidis, Konstantinos Syrigos

PA3472 Randomised controlled trial on optimal sampling sequence in radial guide sheath endobronchial ultrasound (R-EBUS) transbronchial lung biopsy
Chinthaka Samaranayake (Brisbane, Australia), Craig Wright, Shiv Erigadoo, Maree Azzopardi, Remy Kinj, André-Dante Durham, Christophe Von Garnier, Alban Louis

PA3473 Endobronchial Ultrasound (EBUS) for T4 staging in patients with resectable NSCLC
Jolanda C. Kuijvenhoven (Leeuwarden, Netherlands), Vanina Livi, Artur Szlubowski, Maarten Ninaber, Daniel Korenvaar, Lauran Stoger, Ralph Widyra, Jerry Braun, Wim Jan Van Boven, Rocco Trisolini, Jouke Annema

PA3474 The impact of needle choice on molecular analysis of ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) in NSCLC
Kaid Darwiche (Essen, Germany), Dirk Theegarten, Hans-Ulrich Schildhaus, Martin Schuler, Marcel Wiesweg, Clemens Aigner, Ruediger Karpf-Wissel

PA3475 Multicenter, Prospective Trial: Comparing Yield and Performance of Virtual Bronchoscopic Navigation With and Without Radial-EBUS
Felix J.F. Herth (Heidelberg, Germany), A Vachani, Gerard Criner, Shiyue Li, Daniel Nader, Lisa M Kopas, Momen Wahidi, Adnan Majid, Jiayuan Sun

PA3476 Diagnosis of Histoplasmosis Using EBUS-TBNA in Patients With Suspected Lung Cancer: Case Series of a Reference Center in Brazil
Joao Pedro Steinhauser Motta (Rio De Janeiro (RJ), Brazil), Caroliny Samary Silva Lobato, Amir Szlko

PA3477 Negative predictive value of EBUS-TBNA in mediastinal staging of lung cancer
Maria Morales Gonzalez (Jerez de la Frontera, Spain), Cayo García Polo, Carolina España Dominguez, Isabel Muñoz Ramirez, María Pérez Morales

Pre-congress content
Session 227 00:00 – 23:59

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)

PA3478 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
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, Suresh Babu, Anna Donaldson

Fibrosing cases of chronic eosinophilic pneumonia
Naoko Takeuchi (Sakai, Japan), Toru Arai, Kazunobu Tachibana, Takayuki Takimoto, Yoshinobu Matsuda, Yu Kurahara, Kanako Katayama, Yukihiro Nakamura, Reiko Sugawara, Chikatoshi Sugimoto, Seiji Hayashi, Masanori Akira, Takahiko Kasai, Yoshikazu Inoue

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

Characterization of pleuroparenchymal fibroelastosis in two respiratory reference centers in santiago, chile.
Gina Miranda (santiago, Chile), Laura Mendoza, Nadia Herrera, Vivianne Agar, Claudio Silva, Iván Caviedes

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

Trachea stenosis in Koeutel syndrome
Pilar Caro Aguilera (Malaga, Spain), Yazmina Martinez García, Inmaculada Gómez Garrido, Javier Pérez Frias, Estela Pérez Ruiz

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 Descalço, Teresa Bandeira

Trachea stenosis in Koeutel syndrome
Pilar Caro Aguilera (Malaga, Spain), Yazmina Martinez García, Inmaculada Gómez Garrido, Javier Pérez Frias, Estela Pérez Ruiz

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, Heinrike Wilkens, Frank Langer

Extracorporeal photopheresis: an effective treatment for pulmonary graft versus host disease
Vicky Taylor (London, United Kingdom), Matthias Klammer, Raminder Aul

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, DJ Christophe, Biju George, Sharon Anbumalar Lionel

Pulmonary alveolar microlithiasis: genetic disorder and concomitant altered calcium metabolism
Yuliana Pascual-González (L’Hospitalet de Llobregat, Spain), Ester Cuevas, Patricio Luburich, Vanessa Vicens-Zygmunt

Effect of Disodium Etidronate in Patient With Pulmonary Alveolar Microlithiasis
Mina Gharibzadeh Hizal (Ankara, Turkey), Sanem Eryilmaz Polat, Gokcen Dilsa Tugcu, Altan Gunes, Guzin Cinel

Dendriform pulmonary ossification as a rare and unusual complication associated with interstitial lung disease
Michael Kuchuk (Kiryat-Ono, Israel)

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. Mau

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. Mau

Effect of rifampin, a potent organic-anion-transporting polypeptide inhibitor (OATPi), on the PK of BM S-986278, a lysophosphatidic acid receptor (LPA1) antagonist
Giridhar Tirucherai (Princeton, United States of America), Qian Ruan, Dara Hawthorne, Dale Yu, Ratna Revankar, Edgar D Charles

Pre-congress content Session 228 00:00 - 23:59
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)

### PA3496
**Healthy children’s sputum – a marker of exposure to air pollution at school?**
Abigail Whitehouse (London, United Kingdom), Jonathan Grigg

### PA3497
**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, Florian Singer, Alexander Moeller, Claudia E. Kuehni

### PA3498
**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

### PA3499
**Meta-analysis of the prevalence of asthma and asthma symptoms in Russia**
Bairma Batozhargalova (Moscow, Russian Federation), Yury Mizernitskiy

### PA3500
**Asthma treatment for children in tertiary care in Switzerland**
Cristina Ardura-Garcia (Bern, Switzerland), Eva Sophie Lunde Pedersen, Carmen De Jong, Jürg Barben, Anja Joehmann, Andreas Jung, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Claudia Elisabeth Kuehni

### PA3501
**Epidemiology of severe respiratory syncytial virus infection in Ethiopian infants: A prospective study**
Abate Yeshidinber Weldetsadik (Addis Ababa, Ethiopia), Frank Riedel

### PA3502
**Mortality in preterm infants with bronchopulmonary dysplasia associated pulmonary hypertension: a systematic literature review**
Laura Downham (Allschwil, Switzerland), Sofija Cerovic, Catherine Lesage, Sandrine Leroy

### PA3503
**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 Shoemark, Simon Thomas, Woolf Walker, Diana Baralle, Hannah M Mitchellison, Claire Hogg, Jane Lucas

### PA3504
**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 Clarenbach, Andreas Jung, Philipp Latzin, Romain Lazor, Luàr Marco, Isabelle Rochat, Myrofora Goutaki, Claudia Kuehni

### PA3505
**Management of congenital lung malformations in Scottish paediatric centres**
Louise Thomson (Glasgow (Glasgow), United Kingdom), Kenneth MacLeod

### PA3506
**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

### PA3507
**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

### PA3508
**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

### PA3509
**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

### PA3510
**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

### PA3511
**The prevalence of tracheobronchomalacia in children with Primary Ciliary Dyskinesia**
Synne Sperstad Kenelly (Norway), Ketil Heimdal, Finn P. Reinholdt, Suzanne Crowley

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**Pre-congress content Session 229 00:00 - 23:59**

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)

### PA3512
**Foreign Body Removal by Flexible Bronchoscopy Using Retrieval Basket in Children**
Elpis Hatzigiorou (Thessaloniki, Greece), Fotios Kirvassilis, Andreas Ntaflos, Athanasios Skouras, George Kontzoglou, John Tsanakas

### PA3513
**Lymphoid interstitial pneumonia should be suspected in children with autoimmune disease and immune deficiency**
Nagehan Emiralioğlu (Ankara, Turkey), Busra Köseoğlu, Dilber Ademhan, Beste Özsehen, Birce Sunman, Oğuz, Diclehan Orhan, Beralu Öz, Deniz Doğru, Uğur Özçelik, Nural Kiper

### PA3514
**Clinical characteristics and radiological findings of children with hypersensitivity pneumonitis?**
Nagehan Emiralioğlu (Ankara, Turkey), Beste Özsehen, Nursun Özcan, Dilber Ademhan, Birce Sunman, Beralu Öz, Diclehan Orhan, Beralu Özçelik, Nural Kiper

### PA3515
**Severity of Bronchiectasis and Lung Functions Related with the Genotype of Primary Ciliary Dyskinesia Patients**
Nagehan Emiralioğlu (Ankara, Turkey), Bernal Özçelik, Beste Özsehen, Nursun Özcan, Dilber Ademhan, Birce Sunman, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özçelik

### PA3516
**Bronchial wall biopsy for ciliary samples in children with primary ciliary dyskinesia**
Adnan Zafar (Rawalpindi, Pakistan), Muhammad Amin Ur Rahman, Mohammad Alzaid, Wadhya Ataibba

### PA3517
**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

### PA3518
**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

### PA3519
**Pulmonary Hypertension in Childhood**
Ayse Tana Aslan (Ankara, Turkey), Tugba Çiçek Çiçek, Tugba Şışmanlar Eyüboğlu, Zeynep Reyhan Onay, Pelin Asfuroğlu, Serdar Kula, Fatma Inci, Sema Tokgoz, Deniz Öğuz, Sedef Tunaoğlu

### PA3520
**An unusual cause of congenital stridor**
Anna Wiemers (Düsseldorf, Germany), Dirk Schramm, Peter Amrhein

### PA3521
**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

### PA3522
**Review of a children’s complex airway clinic**
Teresa MacArrick (Chester, United Kingdom), Ravi Sharma, Andrew Selby

### PA3523
**A case of Stevens-Johnson Syndrome associated with bronchiolitis obliterans**
Ayse Tana Aslan (Ankara, Turkey), Tugba Şışmanlar Eyüboğlu, Zeynep Reyhan Onay, Rana Beyoglu, Fatma Kurt, Tugba Ramasi Gursoy, Zeynep Reyhan Onay, Rana Beyoglu, Oznur Boyuna, Tugba Sismanlar Eyüboglu

### PA3524
**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

### PA3525
**Longitudinal bronchoscopy findings in children with mucopolysaccharidosis II (MPS II)**
Marianne Muhlebach (Chapel Hill, United States of America), Joseph Muenzer

### PA3526
**A Novel Mutation in Primary Ciliary Dyskinesia: c. 2711dupC p.(Thr838Hisfs*15)**
Ayse Tana Aslan (Ankara, Turkey), Tugba Şişmanlar Eyüboğlu, Fatma Kurt Colak, Tugba Ramasi Gursoy

### PA3527
**Progressive lung disease caused by ABCA3 mutation**
Ayse Tana Aslan (Ankara, Turkey), Tugba Şişmanlar Eyüboğlu, Zeynep Reyhan Onay, Sevgi Pekcan, Matthias Griese

### PA3528
**Clinical features of surfactant metabolism disorders in children**
Ayse Tana Aslan (Ankara, Turkey), Tugba Ramasi Gursoy, Zeynep Reyhan Onay, Pelin Asfuroğlu, Tugba Sismanlar Eyüboglu
Clinical features and factors affecting late diagnose of Primary Ciliary Dyskinesia in childhood
Ayse Tana Aslan (Ankara, Turkey), Pelin Asfuroglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Tugba Sismanlar Eyuboglu

Pleural tuberculosis in a Tunisian serie: On what diagnostic tools we rely?
BAILI HASSENE (sousse, Tunisia), Hamdi Besma, Jrad Sonia, Khalfallah Ikel, Louhaichi Sabrine, Allouch Asma, Radhouani Ala, Ammar 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, Physiologic

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 Goronflot, 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 Cuerpo, Carmen Lucena, Marc Boada, Gerard Espinosa, Raúl Castellanos, Odette Viñas, Estibaliz Ruiz, Albert Pérez, Carlos Agustí, Sergio Prieto, José Ramírez, Marcelo Sánchez, Fernanda Hernández-Gonzáles, Jacobo Sellares

Idiopathic pulmonary fibrosis and gastroesophageal reflux disease: A population-based case-control study
Mishbah Baqir (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 Britt 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 Luna, Leslie Verdeja Vendrell, Ivette Buendía Roldán, Mayra Mejía Avila, Robinson Robles Hernández, Alejandro Velázquez Montes

Prognostic significance of pathologically proven chronic fibrosing interstitial lung diseases with a progressive phenotype (PF-ILDs): single center retrospective cohort
Yukihiro Nakamura (Nagasone city, Japan), Takayuki Takimoto, Toru Arai, Naoko Takeuchi, Reiko Sugawara, Kanako Katayama, Shojiro Minomo, Chikatoshi Sugimoto, Kazunobu Tachibana, Masanori Akira, Takahiko 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 Vincez, 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, Takahiko 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 Jameeddine
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, Martina Bonatti, Barbara Pioselli, Caterina Frati, Denise Madeddu, Federico Quaini, Francoise Guissard, Catherine Moermans, Florence Schleiche, Renaud Louis, Jean-Francois Focant

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 Schleiche, 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 Blibeche, Nadia Mehiri, 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 Okawa, Yosuke Morimoto, Hiroshi Muka, Kyo Kozu

Exhaled breath olfactory signature of pulmonary arterial hypertension (PAH) and chronic thromboembolic pulmonary hypertension (CTEPH)
Sylvia Cohen-Kaminsky (Paris, France), Shy 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 Skee, Luisa Salter-Cid, Larry Zisman

GCN2 regulates BMP signaling: consequence for PVOD pathobiology and therapeutic management
Grégoire Manaud (Paris, France), Mélanie Lambert, Bahgat Soilih, Barbara Girerd, Florent Soubrier, Juliette Bignard, Olivier Claude, Florence Lecerf, Monica Florio, Banghua Sun, Sophie Nadaud, Stijn Verleden, Sérénée Rémy, Ignacio Anegon, Olaf Mercier, Elie Fadel, Gérald Simmonneau, Marc Humbert, David Montani, Fabrice Antigny, Frédéric Perros

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

Pre-congress content Session 231 00:00 - 23:59
E-poster session: Pathophysiology of pulmonary hypertension
Disease(s): Pulmonary vascular diseases, Airway diseases, Respiratory critical care
Method(s): Physiology, Cell and molecular biology, Epidemiology
Chairs: Emilia Swietlik (Cambridge, United Kingdom), Martin Wilkins (London, United Kingdom)

Exhaled breath olfactory signature of pulmonary arterial hypertension (PAH) and chronic thromboembolic pulmonary hypertension (CTEPH)
Sylvia Cohen-Kaminsky (Paris, France), Shy Sherbo, Zhen Wang, Etienne Marie Jutant, David Montani, Barbara Girerd, Edmund Lau, Laurent Becquemont, Yoav Y. Broza, Hossam Haick, Marc Humbert

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Xiao-Qing Sun (Amsterdam, Netherlands), Eva L Peters, Ingrid Schalij, Frances S De Man, Marie-José Goumans, Kondababu Kurakula, Harm-Jan Bogaard
PA3557 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 Thuilliet, Marc Humbert, Christophe Guignabert, Alice Huertas

PA3558 Loss of Bmp9 does not lead to spontaneous pulmonary hypertension, but attenuates vascular remodeling in experimental models
Nihel BERREBEH (Le Plessis-Robinsonilliacoublay, France), Raphaël Thuilliet, Ly Tu, Benjamin Le Vely, Amélie Cumont, Ignacio Anegon, Alice Huertas, Marc Humbert, Sabine Bailly, Christophe Guignabert

PA3559 Role of c-Abelson in the loss of genome integrity in endothelial cells in pulmonary arterial hypertension
Benjamin Le Vely (Le Plessis-Robinson, France), Nihel Berrebeh, Carole Phan, Raphael Thuilliet, Marc Humbert, Alice Huertas, Christophe Guignabert, Ly Tu

PA3560 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

PA3561 SUR1/Kir6.2 potassium channel a new actor involved in pulmonary arterial hypertension
Hélène Le Ribeuz (Paris, France), Mélanie Lambert, Angele Boet, David Montani, Wendy K Chung, Marc Humbert, Fabrice Antigny

PA3562 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

PA3563 Hemodynamic and histological progression in the Sugen-Hypoxia Rat Model
Michel Corboz (Bridgewater, United States of America), Sandra Gagnon, Annie Bouchard, C Brodeur, Charles E Laurent, Dany Salvail, David Cipolla, Walter R Perkins, Richard W Chapman

PA3564 Effects of Long Term Exogenous Apelin Application in Experimental Pulmonary Hypertension Model Created with Monocrotaline
ONDERGEZURK (Isparta, Turkey), Rahime Aslankoc, Mustafa Saygin, Ozlem Ozmen, Y.Sinan Sirin

PA3565 NGF induces pulmonary arterial hyperreactivity through connexin 43 increased expression
guillaume Cardouat (Talence, France), Matthieu Douard, Lukas Roubenene, Zuzana Kmecová, Paul Robillard, Christophe Guignabert, Ly Tu, Frederic Delcambre, Roger Martian, Bernard Muller, Christelle Guibert, Veronique Freund-Michel

Pre-congress content Session 232 00:00 - 23:59
E-poster session: Epidemiology, diagnosis and management of pulmonary embolism
Method(s): Pulmonary vascular diseases, Respiratory critical care
Disease(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)

PA3566 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, Seichiro Sakao, Koichiro Tatsumi

PA3567 Agreement between transthoracic echocardiography and computed tomography pulmonary angiography for detection of right ventricular failure
Serhat Erol (Ankara, Turkey), Sumeyye Ayoz, Aslihan Gurun Kaya, Fatma Ciftci, Aydin Ciledag, Zeynep Pinar Onen, Akin Kaya, Ozlem Ozdemir Kumbasar, Aysegul Gursoy, Melahat Kul

PA3568 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, Vishanna Balbirsingh, Sunera Khan, Alice M Turner, Daniel S Lasserson, Michael Newnham

PA3569 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 Jimenez Castro

PA3570 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 Perez Figuera, Carmen Rodriguez Calle, Diurbis Velasco Alvarez, Diego Durán Barata, Ana Ana Retegui Garcia, David Jimenez 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-Palomares, 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 Rodriguez, 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, Shahnaz 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, Parars 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
Flavia Marin (Pato Branco, Brazil), Sonia Moriguchi, Katia 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 Ozkili, 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, Athina Gogali, Katerina Vaggeli, Christos Katsanos, Christina Tsaoussi, 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 Juana Izquierdo, Alberto Herrejón Silvestre, Ildefonso Furest 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 Baivalia, Karina Meijer, Peter Verhamme, Hugo Ten Cate, Jan Beyer-Westendorf, Sebastian Schellong, Barbara Hutten, Michael Kovacs, Marco Cattaneo, Waleed Ghanima, Amanda Hugman, Michel Coppens, Marije Ten Wolde, Dominique Stephan, Nicolas Falvo, Dominique Brisot, Isabelle Quere, Saskia Middendorp

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 VENTRICLE 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
Akshayaa Vaidyantahan (Liege, Belgium), Julien Guiot, Fadila Zerka, Primakov Sergey, I 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 Sidhu, 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 Gardiner, 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 Alfaiate, Vera Clérigo, Lígia 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 Reyechler, Frederic Duprez, Giuseppe Listro, Leila Belkhir, Lucie Pothen, Halli Yldiz, Jean-Cyr Yombi, Julien De Greef

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 Picucchi, Fabio Sultani, Sabrina Martinello, Lara Bertolovic, Stefano Oldani, Luca Donati, Christian Gurioli, Claudia Ravaglia, Venerino Poletti

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 Alfaiate (Lisboa, Portugal), David Noivo, Vera Clérigo, 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.
Disease(s): Airway diseases
Method(s): Cell and molecular biology Epidemiology General respiratory patient care
Tag(s): Basic science, Clinical
Target audience: Clinical researcher, General practitioner, Pathologist, Patient, Scientist (basic, translational), Adult pulmonologist/clinician
Challenge and success in a patient centered Clinical Research Collaboration
Dominique Hamerlijnck (Amsterdam, Netherlands), Ratko Djukanovic (Southampton (Hampshire), United Kingdom)

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

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)

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

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

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)
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)

09:00  COVID-19 overview, timeline and key events  Tobias Welte (Hannover, Germany)  COV3603

09:20  Discussion and questions and answers  COV3604

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)

09:40  Introduction  COV3605

09:50  Virus biology (structure and viral entry)  Speaker to be confirmed  COV3606

10:00  Virus biology (genomic epidemiology of virus)  Marion Koopmans (Rotterdam, Netherlands)  COV3607

10:10  Host response (immune response)  Tracy Hussell (Manchester (Greater Manchester), United Kingdom)  COV3608

10:20  Host response (airway/lung effects)  Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom)  COV3609

10:30  Discussion and questions and answers  COV3610

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: Anita Simonds (London, United Kingdom)

10:50 Introduction

11:00 European and world-view
Speaker to be confirmed

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

Channel 1 Session 244 12:00 - 13:00

COVID-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
Speaker to be confirmed

12:20 Vaccine approaches

12:35 Vaccines - early clinical trials
Speaker to be confirmed

12:50 Discussion and questions and answers
Assembly members' meeting: Assembly 1 General pneumology

Chairs: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Ioannis Vogiatzis (Newcastle upon tyne (Tyne and Wear), United Kingdom), Laura Fregonese (London, United Kingdom), Frits M.E. Franssen (Horn, Netherlands), Janwillem W. H. Kocks (Groningen, Netherlands), Vitalii Poberezhets (Vinnytsia, Ukraine)

13:15 Presentation by Assembly Officers
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

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)

13:15 Presentation by Assembly Officers
Leo Heunks (Amsterdam, Netherlands)

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)

13:15 Presentation by Assembly Officers
Catherine Greene (Dublin 9, Ireland)

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)

13:15 Presentation by Assembly Officers
Andrea Aliverti (Milan, Italy)

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), Apostolos Bossios (Stockholm, Sweden)

13:15 Presentation by Assembly Officers
Antonio Spanevello (Milan, Italy)

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), Ane Johannesen (Bergen, Norway)

13:15 Presentation by Assembly Officers
Christer Janson (Uppsala, Sweden)

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)

13:15 Presentation by Assembly Officers
Jonathan Grigg (London, United Kingdom)
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)

14:30 Presentation by Assembly Officers
Stefano Elia (Roma (RM), Italy)

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)

14:30 Presentation by Assembly Officers
Martijn A. Spruit (Horn, Netherlands)

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)

14:30 Presentation by Assembly Officers
Graham H. Bothamley (London, United Kingdom)

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)

14:30 Presentation by Assembly Officers
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

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)

14:30 Presentation by Assembly Officers
Venerino Poletti (Forlì, Italy)

Assembly members' meeting: Assembly 13: Pulmonary vascular diseases
Chairs: Anton Vonk Noordegraaf (Amsterdam, Netherlands), Marion Delcroix (Leuven, Belgium), Olivier Sitbon (Le Kremlin-Bicêtre, France), David Jiménez Castro (Madrid, Spain), Harm Jan Bogaard (Amsterdam, Netherlands)

14:30 Presentation by Assembly Officers
Marion Delcroix (Leuven, Belgium)

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)

14:30 Presentation by Assembly Officers
Jouke T. Annema (Amsterdam, Netherlands)
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)

15:40  Introduction
15:50  Respiratory support (pre-ventilation, ventilation and ECMO)
       Paolo Navalesi (Padova, Italy)
16:00  Drugs anti-virals
       Speaker to be confirmed
16:10  Drugs anti-inflammatories
16:20  Other drugs and convalescent plasma
       Maxime Patout (Mont-Saint Aignan, France)
16:30  Discussion and questions and answers

COVID-19: Impact in children and in adults with pre-morbid 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)

16:50  Introduction
17:00  Children
       Alexander Möller (Zürich, Switzerland)
17:10  ILD
       Sergio Harari (Milano (MI), Italy)
17:20  Lung cancer
       Speaker to be confirmed
17:30  Airways disease
       Guy Brusselle (Ghent, Belgium)
17:40  Discussion and questions and answers

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)

### Detailed Programme

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<td>Introduction</td>
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<td>Care pathways and virtual consultations</td>
<td>Ioannis Vogiatzis (Newcastle upon Tyne (Tyne and Wear), United Kingdom)</td>
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<td>Rehabilitation recovery</td>
<td>Sally J. Singh (Leicester (Leicestershire), United Kingdom)</td>
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<td>Long-term impact the lung and beyond</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<td>Immuno-preservation risk of re-infection</td>
<td>Speaker to be confirmed</td>
<td>COV3652</td>
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<td>18:50</td>
<td>Palliative care</td>
<td>Daisy J.A. Janssen (Horn, Netherlands)</td>
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<td>19:00</td>
<td>Discussion, question and answers and closing</td>
<td>Thierry Troosters (Leuven, Belgium), Anita Simonds (London, United Kingdom)</td>
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08:00-09:00
INDUSTRY EARLY MORNING SYMPOSIUM
SEE PAGE 1

08:15-09:15
INDUSTRY EARLY MORNING SYMPOSIUM
SEE PAGE 1

Channel 1  |  Session 267  |  09:30 - 11:00
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.

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 Yorgancioğlu (Izmir, Turkey)

09:30  | Introduction
09:35  | Strategy for early diagnosis and intervention in chronic respiratory disease
       Nanshan Zhong (Guangzhou (Guangdong), China)
09:45  | Global Alliance Against Chronic Respiratory Diseases (GARD): Beijing call to action to promote lung health
       Chen Wang (Beijing, China)
09:55  | A randomized, controlled, open-label study to evaluate the efficacy and safety of oral lopinavir-ritonavir in adults hospitalized with COVID-19 virus infection
       BIN CAO (BEIJING, China)
10:05  | Lessons shared and perspectives in mechanical ventilation for COVID-19
       Anita Simonds (London, United Kingdom)
10:15  | ERS advocacy priorities: air pollution, lung cancer screening, new nicotine delivery products and others
       Ayşe Arzu Yorgancıoğlu (Izmir, Turkey)
10:25  | Outdoor air pollution and the burden of childhood asthma across Europe
       David Rojas-Rueda (Fort Collins, United States of America)
10:35  | Discussion and Q&A

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)

OA 3689  | Introduction
OA 3690  | Late Breaking Abstract - Efficacy of CSJ 117 on allergen-induced asthmatic responses in mild atopic asthma patients
         Gail Gauvreau (Hamilton (ON), Canada), Jens Hohlfeld, Louis-Philippe Boulet, Donald Cockcroft, Beth Davis, J Mark Fitzgerald, Stephanie Korn, Oliver Kormann, Richard Leigh, Irvin Meyers, Hendrik Watz, Sarah Grant, Monish Jain, Maciej Cabanski, Peter Pertel, Ieuan Jones, Jean Lecot, Paul O'Byrne
OA 3691  | 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 Sicras Navarro, Clara Engroba Tejeiro
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 Galinier, Laurent Guilleminault

Pharmacogenetics of inhaled corticosteroid response in adults with asthma
Mohamed Ahmed Edris (Belgium), Emely De Roos, Michael Mcgeachie, Katia Verhamme, M. Arfan Ikram, Guy Brusselle, Kelan 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? A 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 Tam, Michael Roth

Inflammatory phenotypes of asthma determine effect of inhaled corticosteroids on anti-viral immunity
Mandy Menzel (Lund, Sweden), Juan José Nieto-Fontarigo, Morten Hvidtfeldt, 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 Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Clausson, 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

Discussion

Channel 3  Session 269  09:30 - 10:30

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
Chairs: H. Irene Heijink (Groningen, Netherlands), Silke Meiners (München, Germany)

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 COP D airway smooth muscle cells.
Charalampos Michaeloudes (London, United Kingdom)

Metabolic differences in bronchial epithelium from asthma patients and impact of bronchial thermoplasty
Abilash Ravi (Leiden, Netherlands), Annika Gooransen, Annemieck Dijkhuis, Barbara Dierdorf, Tamara Dekker, Yanaika Sabogal Piñeros, Peter J. Sterk, Frédéric Vaz, Jóoue Annema, Peter Bonta, Rene Lutter

Altered iron metabolism and elevated cellular senescence in COPD small airway epithelial cells
Jonathan R. Baker (London, United Kingdom), Peter S Fenwick, Louise E Donnelly, Peter J Barnes, Suzanne. M Cloonan

Impaired NK activity in the IPF lungs.
Tamar Cruz (Barcelona, Spain), Minsue Jia, Tracy Tabib, John Sembrat, Nayra Cardenes, Tullia Bruno, Ana Mora, Robert Lafyatis, 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 Wuyts (Leuven, Belgium), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

### OA3710  
**Introduction**

### OA3711  
**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 Jingjing, Shang Junyi, Zhang Quncheng, An Yunxia, Zhang Xiaoju

### OA3712  
**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-Zygmut, Guillermo Suarez-Cuartin, Jordi Dorca, Josep Palma, Anna Bachs, Victoria Avilés, Christian Tebé, Jess Shull, Maria Molina Molina

### OA3713  
**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

### OA3714  
**Genetic susceptibility and manifestation of progressive fibrosing interstitial lung diseases.**
Martina Sterclova (Praha, Czech Republic), Katefina Sikorova, Martin Petrek, Martina Vasakova

### OA3715  
**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

### OA3716  
**Development of an artificial intelligence software to detect interstitial pneumonias**
Hirotaka Nishikiori (Sapporo, Japan), Hirofumi Chiba, Kenichi Hiroti, Tomohiro Suzuki, Seiya Honda, Naoya Yama, Kimiyuki Ikeda, Yuki Mori, Yuichiro Asai, Naomi Koyama, Koji Kuronuma, Masamitsu Hatakenaka, Hiroki Takahashi

### OA3717  
**Discussion**

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**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)

### OA3718  
**Introduction**

### OA3719  
**Late Breaking Abstract - Positive end-expiratory pressure affects geometry and function of the human diaphragm**
Diana Jansen (Herpen, Netherlands), Annemijn H. Jonkman, Heder J. De Vries, J. Tim Marcus, Coen A. C. Ottenheijm, Leo M. A. Heunks

### OA3720  
**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

### OA3721  
**Gender differences in tidal volume limitation - an ICU database analysis**
Pien Swart (Amstelveen, Netherlands), Marcus J Schultz, Ary Serpa Neto

### OA3722  
**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 Mcverry, Alison Morris

### OA3723  
**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

### OA3724  
**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
### OA3725
**Ventilation management in Asian middle-income countries**
Luigi Pisani (Amsterdam, Netherlands), Ary Serpa Neto, Arjen Dondorp, Marcus J. Schultz

### OA3726
**Patient ventilator asynchrony as a predictor of weaning failure in mechanically ventilated COPD patients.**
Marwa Abdulmoez (assuit, Egypt), Maha Elkholly, Samiaa Sadek, Reham Elmorshedy

### OA3727
**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

### OA3728
**Discussion**

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#### Studio Madrid

**Session 272**

**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)

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<td>Bronchiolitis obliterans</td>
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<td>Assessing and improving the lung function growth trajectory in infants and children</td>
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<td>Peter D. Sly (Brisbane (QLD), Australia)</td>
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<td>Sleep disordered breathing and non invasive ventilation</td>
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<td>Daniel Trachsel (Basel, Switzerland)</td>
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#### Studio Milan

**Session 273**

**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)

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<td>The role of artificial intelligence in lung cancer screening</td>
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<td>Radiation injury and second primary cancer: risk or asset?</td>
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<td>Caro Franck (Edegem, Belgium)</td>
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#### Studio Paris

**Session 274**

**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)

09:30 Introduction 3740

09:35 Antiviral therapy for influenza: latest trial results
Christopher Butler (Oxford (Oxfordshire), United Kingdom) 3741

09:45 New approaches to designing trials for pandemics: setting up an adaptive trial for management strategies in community acquired pneumonia
Lennie P. G. Derde (Utrecht, Netherlands) 3742

09:55 ISARIC Covid-19 pandemic research response, tools and outcomes from clinical characterisation studies
Louise Sigfrid (Brighton (East Sussex), United Kingdom) 3743

10:05 What's next - preparing for the ongoing COVID response and future pandemics
Gail Carson (Oxford (Oxfordshire), United Kingdom) 3744

10:15 Discussion and Q & A 3745

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)

09:30 Introduction 3746

09:35 Deep learning and its applications to lung imaging
Maria Vakalopoulou (Saint-Aubin, France) 3747

09:55 Discussion and Q & A 3748

10:05 Artificial intelligence in lung cancer: where are we now?
Fergus Gleeson (Oxford (Oxfordshire), United Kingdom) 3749

10:25 Discussion and Q & A 3750

10:35 The future is here in thoracic oncologic imaging: role of radiogenomics
Zuhir Bodalal Elkarghali (, Netherlands) 3751

10:55 Discussion and Q & A 3752

11:05 Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases: Part I
Ádám Domonkos Tárnoki (Budapest, Hungary) 3753

11:15 Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases: Part II
David Laszlo Tarnoki (Budapest, Hungary) 3754
**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)

**OA 3756**

**Introduction**

Collating data from major European population studies – The CADSET (Chronic airway disease early stratification) clinical research collaboration


**OA 3757**

**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

**OA 3758**

**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

**OA 3759**

**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

**OA 3760**

**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 Koblízek, Michal Svoboda, Marek Plutinsky, Jaromír Zatloukal, Eva Volakova, Barbora Novotna, Patrice Popelkova, Tomas Dvorak, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vaník, Lucie Heribanova

**OA 3761**

**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)

**OA 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 Richelet, Carole Planès

**OA 3765**

**Echocardiographic predictors of stress induced right ventricular diastolic dysfunction in non-severe chronic obstructive pulmonary disease**

Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

**OA 3766**

**Autonomic dysfunction, cardio-pulmonary parameters and masked heart failure in non-severe chronic obstructive pulmonary disease**

Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva
Assessing cardiocirculatory compensation capacity in COPD: impact of disease severity.
Ruddy Richard (Clermont-Ferrand, France), Aurélien Mulliez, Ludivine Boudieu, Julieanne Touron, Frédéric Costes, Tanja Taivassalo, 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 Furián, Mona Lichtblau, Konstantinos Bitos, 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 (Rodernbach, 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 Rüwwe-Glökenkamp, Jens-Carsten Rückert, Joachim Pfannschmidt, Stephan Eggeling, Sylke Kurz, Gunda Leschke, Bernd Schmidt, Paul Schneider, Andreas Gebhardt, Birgit Becke, Ralf-Harto Hübner

Value of Transbronchial Lung Cryobiopsy in Patients Suspicious of Peripheral Lung Cancer
Felix J.F. Herth (Heidelberg, Germany), J Sun, Max Mayer, Jonas Herth, Ralf Eberhardt, Konstantin 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 Picciucci, 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
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)

**OA3783 Introduction**

**OA3784 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

**OA3785 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

**OA3786 Quality control of cardiopulmonary exercise equipment**
Tjeu Souren (Utrecht, Netherlands), Erwin De Bliek, Johan Roeykens, Kevin De Soomer, Ellie Oostveen

**OA3787 An RER of 1.05 should not be used to determine maximal effort during CPET**
Max Thomas (Birmingham, United Kingdom), Karl Sylvester

**OA3788 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

**OA3789 Deep learning automates complete quality control of spirometric manoeuvre**
Nilakash Das (Leuven, Belgium), Kenneth Verstraete, Marko Topalovic, Jean-Marie Aerts, Wim Janssens

**OA3790 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

**OA3791 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.

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

**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)

**10:40 Introduction** 3792

**10:45 The early life origins of asthma**
Sejal Saglani (London, United Kingdom) 3793

**10:55 The early life origins of chronic obstructive pulmonary disease**
Alvar Agusti Garcia-Navarro (Barcelona, Spain) 3794

**11:05 Risk factors for progression of cystic fibrosis lung disease from childhood to adulthood**
Stephen M. Stick (Perth (WA), Australia) 3795

**11:15 Lower respiratory tract infections: challenges in children and adults**
Jessica Rademacher (Hannover, Germany) 3796

**11:25 Discussion and Q & A** 3797
Clinical trials session: ALERT: Pneumothorax, cough, PAH, alveolar proteinosis
Abstracts presented in this session are also available as E-posters from 24 August 2020

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

**Discussants:** Daiana Stolz (Basel, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France)

### 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 Laskawiec-Szkonter, John Corcoran, Stephen Gerry, Corran Roberts, John Harvey, Nick Maskell, Robert Miller, Najib Rahman.

### 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 Schelfhout, Allison Martin Nguyen, Qing Li, Anjela Tzontcheva, Beata Iskold, Stuart Green, Carmen La Rosa, David Muccino, Jaclyn Smith.

### Late Breaking Abstract - Switching from PDE5i to riociguat in patients with PAH: The REPLACE study

### Inhaled Molgramostim Therapy in Autoimmune Pulmonary Alveolar Proteinosis (APAP)
Speaker to be confirmed.

### 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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<td>10:45</td>
<td>Patient perspective: video</td>
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<td>Barbara Crossley (Buxton, United Kingdom)</td>
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<td>10:50</td>
<td>Antibiotics kill some but not all pathogens: persistent populations and how they arise</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>11:00</td>
<td>Better diagnostics for targeted antibiotic therapy</td>
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<td>Herman Goossens (Edegem (Antwerp), Belgium)</td>
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<td>11:10</td>
<td>Improving the innate immune response in respiratory infections: the use of repurposed drugs</td>
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<td>Victor Nizet (La Jolla, United States of America)</td>
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<td>11:20</td>
<td>Biofilms and how to combat them: examples from cystic fibrosis</td>
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<td>Thomas Bjarnsholt (Copenhagen, Denmark)</td>
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**Channel 1**

**Session 283**

**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)

**11:50**

**Introduction**

**11:55**

**Keeping the kidney and heart in balance: management of end-stage right heart failure**
Laurent Savale (Le Kremlin-Bicêtre, France)

**12:05**

**Interventional treatment of pulmonary hypertension: where are we now?**
Nazzareno Galiè (Bologna (BO), Italy)

**12:15**

**Journeys to high altitude: risks and recommendations for travellers with/without pre-existing cardiopulmonary conditions**
Konrad E. Bloch (Zurich, Switzerland)

**12:25**

**ERS statement on chronic thromboembolic pulmonary hypertension**
Marion Delcroix (Leuven, Belgium)

**12:35**

**Discussion and Q & A**

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**Channel 2**

**Session 284**

**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)

**OA3818**

**Introduction**

**OA3819**

**A new statistical diagnostic tool for respiratory diseases**
Martin Wiegand (Cambridge, United Kingdom), Saralees Nadarajah, Jaclyn Smith, Kimberley Holt, Kevin Mcguinness

**OA3820**

**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, Bergtold Nassatjna, Larissa Schwarzkopf, Hildegard Seidl, Streitwieser Streitwieser, Miriam Hofmann, Thomas Müller, Tobias Weiß, Philipp Morawietz, Eva Annette Rehfues, Rudolf Maria Huber, Ursula Berger

**OA3821**

**Efficiency of a home follow-up program after a COPD exacerbation as a way to reduce hospital readmissions**
Laura Núñez García (Madrid, Spain), María 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

**OA3822**

**Healthcare utilization and cost associated with chronic cough in the United Kingdom: a retrospective observational study**

**OA3823**

**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

**OA3824**

**Lean methodology implemented in pulmonary 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 Pelicano Vizuete, Felipe Villar Alvarez

**OA3825**

**Discussion**
### 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 Mailleux (Paris, France)

**OA 3826** Introduction

**OA 3827** Differential mast cell activation by transcriptomic signature analysis in the U-BIOPRED severe asthma cohort
Angelica TIOTIU (Nancy, France), Yusuf Badi, Nazanin Zounemat Kermani, Phillip Hansbro, Craig Wheelock, Sven-Erik Dahlen, Yi-Ke Guo, Peter Sterk, Ratko Djukanovic, Ian Adcock, Fan Kian Chung

**OA 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, Benoit Misset, Michel Malaise, Renaud Louis, Edouard Louis, Monique Henket, Catherine Moermans, Sebastien Njock

**OA 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, Riitta Kaarteenaho, Carina Sihlbom, C. Magnus Skold

**OA 3830** Impact of histaminergic H3 receptor antagonist on hypoglossal nucleus in chronic intermittent hypoxia conditions
Liang Xie (Shanghai, China), Shangqun Li

**OA 3831** Differentiation of NSCLC patients and healthy controls by a urinary microRNA panel
Aniek J.M. Wilke - Raamsteeboers (Enschede, Netherlands), C.G.M. Groothuis-Oudshoorn, A.G.J. De Moor, J.A.M. Van Der Palen, J. De Rooij, E. Citgez

**OA 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, Georgos Statopoulos

**OA 3833** Discussion

### 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

**12:28** A rare cause of recurrent pneumothorax
João Oliveira Pereira (Coimbra, Portugal)
### Channel 5  
**Session 287**  
11:50 - 12:50

#### Oral presentation: Workplace and outdoor air quality: from sensitisation to social media
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** David Fishwick (Sheffield, South Yorkshire, United Kingdom), Rafael E. de la Hoz (New York, United States of America)

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<td>OA3846</td>
<td>The mediating role of lung function on air pollution-induced cardiopulmonary mortality</td>
<td>Andrea Dalecka (Ostrava, Czech Republic), Claudia Wigmann, Hicran Altug, Sara Kress, Vítězslav Jiřík, Joachim Heinrich, Michael Abramson, Tamara Schikowski</td>
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<td>OA3847</td>
<td>Foetal exposure to heavy metals and risk of asthma and allergic diseases in early childhood: a population-based birth-cohort study</td>
<td>Isabella Amnesi Maesano (Paris, France), Giancarlo Pesce, Nour Baiz, Guy Huel</td>
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<td>OA3848</td>
<td>Change in body mass index and expiratory flow in World Trade Center workers</td>
<td>Rafael E. de la Hoz (New York, United States of America), Amaal Alruwaily, Akshay Sood, Xiaoou Liu, John Doucette, Yunho Jeon, Juan Celedón</td>
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<td>OA3849</td>
<td>Exposure-response relationships for platinum salt sensitization in platinum refinery workers: a 17-year retrospective study</td>
<td>Lidwien A.M. Smit (Utrecht, Netherlands), José Jacobs, Lützen Portengen, Juliete Da Silva, Dick Heederik, Frits Van Rooy, Remko Houba</td>
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<td>OA3850</td>
<td>Occupational exposure and new onset asthma in the Telemark study: a five-year follow up.</td>
<td>Nikola Zivadinovic (Skien, Norway), Geir Klepaker, Martin Veel Svendsen, Tore Kjell, Paul Henneberger, Johny Kongerud, Anne Kristin Møller Fell</td>
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<td>OA3851</td>
<td>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 (IPF JES)</td>
<td>Carl Reynolds (London, United Kingdom), Vyshnavi Thanarraaj, Rupa Sisodia, Chris Barber, Paul Cullinan</td>
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<td>OA3852</td>
<td>Using digital and social media to highlight the risks of occupational exposures as a cause of lung diseases</td>
<td>David Fishwick (Sheffield, South Yorkshire, United Kingdom), Emma Thompson, Dick Heederik, Martie Van Tongeren, Sara De Matteis, Saskia Weldam, Jade Sumner, Dan Smyth, Ewelina Szmytke, Paul Blanc, Pippa Powell</td>
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<td>OA3853</td>
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### Studio Madrid  
**Session 288**  
11:50 - 12:50

#### Symposium: Which paediatric asthma guidelines are the most appropriate for children and adolescents?

**Aims:** To describe the evidence supporting current international guidelines on treatment of children with asthma steps 1–3 and the dependence of this evidence on healthcare settings; and to describe evidence for individualised,stratified treatment in childhood asthma.

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

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

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Respiratory therapist, Medical Student, Nurse, Paediatrician, Patient

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Ernst Eber (Graz, Austria)

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<td>3855</td>
<td>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?</td>
<td>Louise Fleming (London, United Kingdom)</td>
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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)

### Studio Milan 11:50 - 12:50

**Introduction**

**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**

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**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)

### Studio Paris 11:50 - 12:50

**Introduction**

**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)

**The best papers in the ERJ: chronic airways diseases, including asthma and COPD**
Mina Gaga (Athens, Greece)
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)

**Case 1 - Author:** Lennart H. Conemans (Netherlands)

**Discussion and Q & A**

**Case 2 - Author:** Anna Trojnar (Poland)

**Discussion and Q & A**

**Case 3 - Author:** Abdul Majeed Arshad (India)

**Discussion and Q & A**

**Case 4 - Author:** Yuri De Deus Montalverne Parente (Brazil)

**Discussion and Q & A**

**11:50** Introduction

**11:52** Presentation of cases by the session facilitator

Dave Singh (Manchester, United Kingdom)

**13:15-14:15**

**INDUSTRY DEVICE MINI SYMPOSIA** SEE PAGE 1

**13:15-14:15**

**INDUSTRY LUNCHTIME SYMPOSIUM** SEE PAGE 1

Symposium: Severe thoracic sarcoidosis: where do we stand?

**Aims:** To provide an overview of severe thoracic sarcoidosis, from basic research to clinical management, with a focus on most recent data on two severe complications: pulmonary fibrosis and cardiac involvement

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

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

**Tag(s):** Clinical

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

**Chairs:** Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)
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<tr>
<th>Time</th>
<th>Session</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:20</td>
<td>Introduction</td>
<td></td>
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<tr>
<td>14:25</td>
<td>Pathogenesis of pulmonary fibrosis in sarcoidosis</td>
<td>Jan C. Grutters (Nieuwegein, Netherlands)</td>
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<tr>
<td>14:35</td>
<td>Genetic and non-genetic risk factors for severe pulmonary sarcoidosis</td>
<td>Paolo Spagnolo (Padova (PD), Italy)</td>
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<td>14:50</td>
<td>Severe pulmonary sarcoidosis: definition and risk stratification</td>
<td>Daniel Culver (Cleveland, United States of America)</td>
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<tr>
<td>14:55</td>
<td>Management of cardiac sarcoidosis</td>
<td>Vasileios Kouranos (London, United Kingdom)</td>
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<tr>
<td>15:10</td>
<td>Discussion and Q &amp; A</td>
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**Joint session: Updates in cystic fibrosis**

A joint ERS/ECFS symposium

**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 Albieri (Milano (MI), Italy), Susan Madge (London, United Kingdom)

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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>Update on management of lung infection in cystic fibrosis</td>
<td>Patrick Flume (Charleston, United States of America)</td>
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<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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<td>15:05</td>
<td>Update on new treatments for cystic fibrosis</td>
<td>Damian Downey (Belfast, Ireland)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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**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)

**OA3937** Late Breaking Abstract - Induction of the transcriptional repressor B lymphocytes-induced maturation protein-1 (Blimp-1) in lung cancer
Susetta Finotto (Erlangen, Germany), Laura Neurath, Denis Trufa, Carol Geppert, Ralf Rieker, Horia Sirbu

**OA3938** Late Breaking Abstract - Transient Receptor Potential Vanilloid subtype 4 in patients with lung cancer
Ieva Bajoriuniene (Kaunas, Lithuania), Vytilis Bajoriunas, Edgaras Stankevicius

**OA3939** 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 Kastana, Maria Hatziapostolou, Christos Polytarchou, Antonia Marazioti, Sophia Nikou, Gonzalo Herradon, Eleni Papadaki, Georgios Stathopoulos, Constantinos M. Mikelis, Evangelia Papadimitriou

**OA3940** LSC - 2020 - Comprehensive characterization of the immune landscape within different molecular subtypes of small cell lung cancer (SCLC)
Angel Nuñez Buiza (Madrid, Spain)
Barbora Belsanova (Czech Republic), Miloš Pešek, Benesova Lucie, Martin Svatova, Renata Ptrackova, Ondrej Fiala, Masek 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 González-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 Geva Steinhoff, Michael Rullmann, Thomas Ebert, Sebastian Krämer, Johannes Broschewitz, Osama Sabri, Swen Hesse, Hans-Jürgen Seyfarth, Hubert Wirz

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
yuanling liu (GuangZhou, China), Xinglin Gao, Minzhen Lu, Jianan Chen, Siqi Li

Introduction

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 SEBASTIÁN, Spain), Inès 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 Mylemans (Berchem, Belgium), Sofie Jacobs, Eline Vermeiren, Kim Van Hoorenbeek, Ann De Guchtenaere, Annelies Van Eyck, Stijn Verhulst

Fluctuation analysis of FEV1 in healthy children and adolescents: the effect of age
Sotiros Fouzas (Patras, Greece), Eirini Sofia Frima, Ilia Theodorakopoulos, Dimos Gidaris, Nikolaos Karantaglis, Grigoris Chatziparasidis, Panagiotis Plotas, 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 Oestreich, Philipp Latzin, Kathryn Ramsey, Sophie Yammine

Volumetric capnography: a promising lung function test in cystic fibrosis?
Anne-Christiane Kentgens (Bern, Switzerland), Olga Lagiou, Bettina Sarah Frauchiger, Florian Wyler, Ilia Theodorakopoulos, Sophie Yammine, Sotirios Fouzas, Philipp Latzin

Introduction

Channel 4 Session 305 14:30 - 15:30
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.
Introduction

ARDS - an unusual complication of mumps
Neeraj Sharma (Kolkata, India)

Discussion and Q&A

An unexpected association
Ana Catarina Gouveia Cardoso (Vila Nova de Famalicão, Portugal)

Discussion and Q&A

Dyspnea and pulselessness: an unusual combo
Umang Arora (New Delhi, India)

Discussion and Q&A

A rare cause of bronchiectasis
Claudio Tirelli (Vaiano Cremasco (CR), Italy)

Discussion and Q&A

Successful management of a patient with triple infection (MDR-TB/HIV/HCV) using new WHO recommendations
Aliaksandr Skrahin (Minsk, Belarus)

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

Introduction

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

Long-term outcomes with initial triple oral therapy in pulmonary arterial hypertension (PAH): Insights from TRITON
Olivier Sitbon (Le Kremlin-Bicêtre, France), Nazzareno Galié, Martin Doelberg, J Simon R Gibbs, Marius M Hoeper, Mylene Stefani, Stephen C Mathai, Vallerie Mclaughlin, Loïc Perchenet, Gérald Simonneau, Kelly Chin

Long-term outcomes in incident pulmonary arterial hypertension (PAH) patients initiated with triple combination therapy including parenteral prostacyclin (PGI2)
Athénais Boucly (Le Kremlin Bicêtre, France), Audrey Baron, Laurent Savale, Xavier Jaïs, François Picard, Vincent Cottin, Emmanuel Bergot, Claire Dauphin, Arnaud Bourdin, Ari Chaouat, Pascal Roblot, Céline Chabanne, Grégoire Prévot, Laurent Bertolletti, David Montani, Gérald Simonneau, Marc Humbert, Olivier Sitbon

REPAIR: long-term effects of macitentan on the right ventricle (RV) in pulmonary arterial hypertension (PAH)
David Kiely (Sheffield (South Yorkshire), United Kingdom), Emmanuelle Cottleel, Nazzareno Galié, J. Tim Marcus, Andrew Peacock, Stephan Rosenkranz, Andrew J Swift, Ahmed Tawkol, Adam Torbicki, Anton Vonk Noordegraaf, Graham Wetherill, Richard Channick
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


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 multi-centre study


In-depth risk stratification in pulmonary arterial hypertension

Athiththan Yogeswaran (Giessen, Germany), Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall

Discussion

Studio Madrid Session 307 14:30 - 15:30

Journal session: New technologies for the management of COPD and obstructive sleep apnea and the diagnosis of lung cancer

Highlights from JAMA and the JAMA Network

Aims: To review 1) recent advances in surgical approaches to the treatment of obstructive sleep apnea; 2) recent advances in blood biomarkers in the diagnosis of lung cancer; 3) recent clinical trial evidence on the benefits and risks of in-home noninvasive ventilation for severe COPD.

Disease(s): Airway diseases  Sleep and breathing disorders  Thoracic oncology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Physician in Pulmonary Training

Chairs: Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

14:30 Introduction George O'Connor (Boston, United States of America) 3976

14:35 Surgical approaches to the treatment of obstructive sleep apnea Stuart MacKay (Wollongong, Australia) 3977

14:50 Home noninvasive positive pressure ventilation for severe COPD Claudia Dobler (Coogee, Australia) 3978

15:05 Discussion and Q & As 3979

15:25 Conclusion George O'Connor (Boston, United States of America) 3980

Studio Milan Session 308 14:30 - 15:30

Symposium: Image-based guidelines and recommendations in respiratory diseases

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)
14:30 Introduction

14:35 Incidental or screen based findings of pulmonary nodules: what to do?
Adriana Dubbeldam (Nieuwrode, Belgium)

14:45 Revised diagnostic criteria for idiopathic pulmonary fibrosis
Athol Wells (London, United Kingdom)

14:55 Logical use of imaging modalities in lung cancer staging
Walter De Wever (Leuven, Belgium)

15:05 Image-based recommendations for the evaluation of pulmonary embolism and arterial hypertension: what? when? how?
Martine Remy-Jardin (Lille, France)

15:15 Discussion and Q&A

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**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)

14:30 Introduction

14:35 ERS statement: Global Lung Function Initiative (GLI): Deriving global multi-ethnic reference values for the measurement of lung volumes
Sanja Stanojevic (Halifax (NS), Canada)

14:45 The evolution of respiratory function testing in paediatric lung diseases
Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)

14:55 Challenging spirometry with newer lung function tests in adults
Omar S. Usmani (London, United Kingdom)

15:05 Applying new respiratory function technologies to the elderly and the potential of future lung regeneration
Andrea Aliverti (Milan, Italy)

15:15 Discussion and Q&A

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**Studio Vienna**

**Session 310** 15:30 - 16:30

**Lungs on fire: Interstitial lung 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):** Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases

**Tag(s):** Clinical

**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)

Discussion and Q&A
Case 2 - Author: Neel Thakkar (India) 3995
Discussion and Q & A 3996

Case 3 - Author: João Oliveira Pereira (Portugal) 3997
Discussion and Q & A 3998

Case 4 - Author: Oleh Yakovenko (Ukraine) 3999
Discussion and Q & A 4000

15:30 Introduction 4001

15:32 Presentation of cases by the session facilitator
Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom) 4002

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
Tag(s): Clinical
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 4003

15:45 ERN-lung report from the network coordination team
Gernot G.U. Rohde (Frankfurt am Main, Germany) 4004

15:54 Phenotypic Spectrum in Primary Ciliary Dyskinesia
Heymut Omran (Münster, Germany) 4005

16:03 Genomically-guided therapies: a new era for cystic fibrosis
Marcus Mall (Berlin, Germany) 4006

16:12 Why should we care for the vessels in interstitial lung disease?
Horst Olschewski (Graz, Austria) 4007

16:21 Immundefects, rare pulmonary infections and rare lung diseases
John R Hurst (London, United Kingdom) 4008

16:30 Discussion and Q & A 4009

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)

OA4010 Introduction

OA4011 The association between lung function in adults and future burden of obstructive lung diseases in a long-term follow-up
Lene Maria Orts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Anders Helles Carlsen, Annelli Sandbæk, Anders Lokke

OA4012 The majority of patients that suffer an asthma attack at the Emergency Room (ER) are mild asthmatics
“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

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

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

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

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

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 Casamuta, Nicolas Regamey, Alex Moeller, Cristina Ardura-Garcia, Claudia E Kuehni

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

The role of eosinophils in pediatric and adult asthma
Jimmy Omony (Neuherberg, Germany), Ruth Grychtol, Nicole Maison, Dominik Thiele, Adan Chari Jirmo, Anna-Maria Dittrich, Thomas Bahmer, Klaus F Rabe, Harald Renz, Gesine Hansen, Matthias Kopp, Bianca Schaub, Erika Von Mutius, Sabina Illi

Pediatric Asthma in Canada 2016: A cross-sectional study in primary care
Andrew Cave (Edmonton (AB), Canada), Christina Gillies, Sylvia Aponte-Hao, Boglarka Soos, Tyler Williamson, Neil Drummond

Asthma, atopy and lung function in young adults hospitalised for bronchiolitis in infancy.
Karen G alta Sørensen (Stavanger, Norway), Knut Øymar, Thomas Halvorsen, Ingvild Bruun Mikalsen

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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<td>15:40</td>
<td>Introduction</td>
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<tr>
<td>15:45</td>
<td>SLE with HLH - A double whammy</td>
<td>Mohanakrishnan Jayamani (Chennai (Tn), India)</td>
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<tr>
<td>15:51</td>
<td>Discussion and Q &amp; A</td>
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<td>15:56</td>
<td>Siphonage lung disease</td>
<td>INAYAT ULLAH (peshawar, Pakistan)</td>
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<td>16:02</td>
<td>Discussion and Q &amp; A</td>
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<td>16:07</td>
<td>Acute Flaccid Paralysis and respiratory failure by Enterovirus D68 Infection - the beginning of Polio epidemic?</td>
<td>Syeda Nafisa (Nottingham, United Kingdom)</td>
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<td>16:13</td>
<td>Discussion and Q &amp; A</td>
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<td>16:18</td>
<td>Cerebral air embolism complicating transbronchial lung biopsy</td>
<td>Vladimir Herout (Brno 34, Czech Republic)</td>
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<td>16:24</td>
<td>Discussion and Q &amp; A</td>
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<td>16:29</td>
<td>Respiratory insights into Stiff Person Syndrome (SPS): clinical, electromyographic and therapeutic implications</td>
<td>Margherita Algeri (Milano, Italy)</td>
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<td>16:35</td>
<td>Discussion and Q &amp; A</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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<td>OA4038</td>
<td>Introduction</td>
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<tr>
<td>OA4039</td>
<td>Late Breaking Abstract - Thromboembolic complications in COVID-19 patients admitted to two large East London hospitals</td>
<td>Stuart Innes (Romford, United Kingdom), Erik Skyllberg, Helen Fielden, Ateeb Khan, Daryl Cheng, Rizwan Kaiser, Adam Ainley</td>
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<tr>
<td>OA4040</td>
<td>Late Breaking Abstract - Pulmonary embolism in patients admitted by COVID-19: Incidence and features.</td>
<td>FERNANDO GARCIA (Getafe, Spain), Beatriz Raboso Moreno, Cristina Matesanz Lopez, Jose Maria Diaz Garcia, Carmen Maria Acosta Gutierrez, Carolina Panadero Paz, Cristina Lopez Riolobos, Araceli Abad Fernandez, Eva Aguilar Rivilla, Cristina Cañibano Dominguez, Jose Luis Santiago Luís, Mariara Antonieta Calderon Alcala, Alicia Ruiz Martin, Zully Adjani Vasquez Gambasi, Pilar Andres Ruzafa, Jose Luis Garcia Satue, Sara Calero Pardo, Maria Teresa Rio Ramirez</td>
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<tr>
<td>OA4041</td>
<td>Late Breaking Abstract - Pulmonary embolism in patients with COVID-19: Time to change thromboprophylaxis paradigm.</td>
<td>Aarani Mahalingam, Alguili Elsheikh, Muhammad Shafiq, Marcus Pittman</td>
</tr>
<tr>
<td>OA4042</td>
<td>Impact of pulmonary hypertension on the left ventricular stiffness: a large animal study</td>
<td>Olympia Bikou (New York, United States of America), Serena Thorakan, Kelly Yamada, Taro Kariya, Jaime Aguero, Kenneth Fish, Kiyotake Ishikawa</td>
</tr>
<tr>
<td>OA4043</td>
<td>Exercise stress echocardiography of the pulmonary circulation and right ventricular-arterial coupling in healthy adolescents</td>
<td>Kevin Forton (Bruxelles, Belgium), Vitalie Faoro, Robert Naeije</td>
</tr>
</tbody>
</table>
Insights on right ventricular dysfunction in World Symposium of Pulmonary Hypertension Group 3 PH
Franz Rischard (Tucson, United States of America), Kristin Highland, Rebecca Vanderpool, Milena Redeva, . And The Pulmonary Vascular Disease Phenomics (pvdomics) Study Group

Sex differences in the relation between sex hormones and right ventricular function in pulmonary arterial hypertension
Jessie van Wezenbeek (Amsterdam, Netherlands), Joanne A. Groeneveldt, Samara M.A. Jansen, Annemieke C. Heijboer, Marie José Goumans, Harm Jan Bogaard, Anton Vonk Noordegraaf, Frances S. De Man

Determinants of right ventricular diastolic stiffness in precapillary pulmonary hypertension: a cardiac magnetic resonance study
Ahmed A. Bayoumy (Ismailia, Egypt), Natalia J. Braams, Sophia A. Mouratoglou, Onno A. Spruijt, Frances S. De Man, Anton Vonk-Noordegraaf, Samara M.A. Jansen, Joanne A. Groeneveldt, Berend E. Westerhof, J Tim Marcus, Lilian J. Meijboom, Harm-Jan Bogaard

Right ventricular stiffness impairs right atrial function in pulmonary arterial hypertension
Jeroen Niels Wessels (Amsterdam, Netherlands), Sophia A Mouratoglou, Jessie Van Wezenbeek, J Tim Marcus, Lilian J Meijboom, Gustav J Strijkers, Anton Vonk-Noordegraaf, Frances S De Man

Long-term hemodynamic benefits after ‘treat-to-close’ for intracardiac shunts and pulmonary hypertension
Michael Seckeler (Tucson, United States of America), Rebecca Vanderpool, Scott E. Klewer, Franz P. Rischard

State of the art session: Sleep and breathing disorders
From screening to optimal management
Aims: An overview on sleep disordered breathing research over the last 30 years, with attention to new topics and future developments in the field.
Disease(s): Respiratory critical care, Sleep and breathing disorders
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Physiologist, Respiratory physiotherapist, Respiratory therapist
Chairs: Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

15:40 Introduction
15:45 The Sadoul Lecture: Obstructive sleep apnea - past, present, and future
Maria Bonsignore (Palermo, Italy)
15:54 Screening for sleep disordered breathing: in whom and how
Sophia E. Schiza (Heraklion, Greece)
16:03 Personalized treatment in sleep disordered breathing
Winfried J. Randerath (Solingen, Germany)
16:12 Sleep disordered breathing, CVD and Continuous Positive Airway Pressure
Patrick Lévy (Grenoble, France)
16:21 ERS statement on sleepiness and fitness to drive in patients with obstructive sleep apnoea
Walter McNicholas (Dublin, Ireland)
16:30 Discussion and Q & A.

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.
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

Tag(s): Clinical

Target audience: Adult pulmonologist/ Clinician, Clinical researcher, General practitioner, Nurse, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

Chairs: Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

15:40 Introduction  4063

15:45 Physiology of cough and denervation of the airways  4064
Giovanni A. Fontana (Vaglia (FI), Italy)

15:55 Differential diagnosis of chronic cough  4065
Imran Satia (Hamilton (ON), Canada)

16:05 Cough reflex hypersensitivity: a treatable trait?  4066
Eva Millqvist (Skovde, Sweden)

16:15 Novel treatments of chronic cough  4067
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

16:25 Discussion and Q & A  4068

Studio Vienna  Session 319  16:40 - 17:10

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): Thoracic oncology

Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology  Imaging

Tag(s): Clinical

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)
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 multicompartment 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 (Forli, 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

Channel 2 Session 321 16:50 - 17:50
Oral presentation: New insights into asthma immunology: in mouse and men
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, Public health, Pulmonary function testing
Chairs: Christian Taube (Essen, Germany), Ian M. Adcock (London, United Kingdom)

OA4079 Introduction

OA4080 Late Breaking Abstract - GATA-3 in lung CD4+T cells drives Interleukin-10 deficiency-induced lung inflammation in asthma
Zuqin Yang (Erlangen, Germany), Nina Li, Julia Koelle, Ralf Joachim Rieker, Susetta Finotto
Airway sensory nerve sensitivity in adolescents with eosinophilic and non-eosinophilic asthma

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

Oxidative stress and mitochondrial dysfunction in a novel in vivo exacerbation model of severe asthma
Jack Lowe (London, United Kingdom), Ian Adcock, Coen Wiegman

Air pollution affects airway pathology in wheezing children
Matteo Bonato (Padova, Italy), Elisa Gallo, Erica Bazzan, Manuel Cosio, Angelo Barbato, Marina Saetta, Simonetta Baraldo, Dario Gregori

Cbx4 Regulates RNA Binding Protein MEX-3B To Thymic stromal lymphopoietin Expression Sumoylation In Epithelium Of HDM-induced Allergic Inflammation
liang shixiu (Guangzhou, China), Yu Changhui, Zhou Zicong, Zhou Zili, Liu Jiyei, Cai Shaoxi

LSC - 2020 - Glutathione-S-transferase P promotes Interleukin-1ß-induced inflammation and metabolic reprogramming in mice with allergic airways disease
Cheryl van de Wetering (Maastricht, Netherlands)

Introduction

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

Sublobar resection versus lobectomy in non-small cell lung cancer: a propensity matched analysis

Quality of life evolution in the first year after VATS lung resection and SABR for early stage NSCLC: a single centre analysis
celcia pompili (Leeds, United Kingdom), Kevin Franks, Zoe Rogers, Matthew Callister, Jonathan Robson, Alessandro Brunelli, Patricia Holch, Wei Ling Chia, Kate Absolom, Galina Velikova

Safety Analysis of Superior Vena Cava Resection for Extended Thymic Epithelial Neoplasms>
Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Giulia Sedda, Lorenzo Spaggiari

Early venovenous extracorporeal membrane oxygenation for idiopathic post-pneumonectomy pulmonary edema.
Agathe Seguin-Getelet (Paris, France), Charles Moulin, Philippe Girard, Konstantinos Zannis, Laurent Tric, Jean-Luc Leguillou, Thiibault 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 Lescherb, 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

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), Chair to be confirmed

Introduction

Adult Bronchiectasis in the Northern Territory of Australia: The Aboriginal and Non-aboriginal comparative study
Sumit Mehra (Perth, Australia), Lam Chor, Stuart Campbell, Subash Heraganahally

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, Rosaneal 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 Einarssoon, J Stuart Elborn, Stefano Aliberti, Oriol Sibila, Jeffrey T-J Huang, James D Chalmers

“Integrative microbiomics” reveals a disrupted interactome in bronchiectasis exacerbations

A randomized controlled trial of 4 weeks of airway clearance with oscillating positive expiratory pressure device versus autogenic drainage in people with bronchiectasis
Michal Shteinberg (Haifa, Israel), Naama Yaari, Nili Stein, Lea Bentur, Galit Livnat, Yochai 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 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 Emtner (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 Cacceia, 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, Anael Barberan-Garcia, Eulalia 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
Hazal Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Melda Saglam, Aslihan Cakmak, Naciye Vardar Yagli, Ebru Calik Kutukcu, 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 Perez, Alba Gomez, Ana Isabel Mayer, Alejandro Pasarin, Jordi Ibáñez, 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

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)
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  Pulmonary function testing

Tag(s): Clinical

Target audience: Paediatrician

Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jan van Meerbeeck (Edegem (Antwerp), Belgium)

16:50 Introduction

16:55 Keynote: Diagnostic and the therapeutic applications of bronchoscopy
Ernst Eber (Graz, Austria)

17:05 Bronchoscopy in a child
Dirk Schramm (Düsseldorf, Germany)

17:45 Multiple breath washout in toddlers
Kathryn Ramsey (Bern, Switzerland)

18:05 Hypoxic challenge test in preschool children
Stephanie J.A. Balink (Rotterdam, Netherlands)

18:25 Spirometry controlled chest CT
Pierluigi Ciet (Rotterdam, Netherlands), Harm Tiddens (Rotterdam, Netherlands)

Clinical trials session: ALERT: Infection in adults and children

Abstracts presented in this session are also available as E-posters from 24 August 2020

Chairs: Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

Discussants: Stefano Aliberti (Milano (MI), Italy), Discussant to be confirmed

RCT4130 Late Breaking Abstract - Duration of amoxicillin-clavulanate for protracted bacterial bronchitis in children: a randomized controlled trial
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

RCT4131 Late Breaking Abstract - Adjunctive treatment with oral dexamethasone in adults hospitalised with community-acquired pneumonia: a randomised clinical trial
Esther Wittermans (Nieuwegein, Netherlands), Esther Wittermans, Stefan Vestjens, Simone Spoorenberg, Willem Blok, Jan Grutters, Rob Janssen, Ger Rijkers, Frank Smeenk, Paul Voorn, Ewoudt Van De Garde, Willem Jan Bos

RCT4132 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
Lotte Terpstra (Alkmaar (NH), Netherlands), Lotte Terpstra, Inez Bronsveld, Jeroen Doedeman, Wouter Rozenmeijer, Harry Heijerman, Wim Boersma

RCT4133 Wrap-up by discussant and discussion
Stefano Aliberti (Milano (MI), Italy)

RCT4134 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

### 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 Petzer, David Haschka, Markus Theurl, Daniela Lener, Sophie Wildner, Rosa Bellmann-Weiler, Eva Cristini, Ivan Tancevski

### 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, Alessia Fabiano, Andrea Mussoni, Stefania Pezzi, Giuliano Malatesta, Alessandra Gennari, Elisa Marchionni, Ilaria Contadini, Francesco Cristini, Eva Bernardi, Luigi Arcangelo Lazzari Agli

### Late Breaking Abstract - A SINGLE-CENTER EXPERIENCE WITH HIGH-FLOW NASAL CANNULA FOR COVID-19 PATIENTS WITH ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)

Cristina Matesanz Lopez (Madrid, Spain), José María Diaz García, Carolina Panadero Paz, Fernando García Prieto, Beatriz Moreno Raboso, María Teresa Rio Ramírez, Carmen María Acosta Gutiérrez, Cristina López Riolobos, Mariara Calderón Alcalá, Zully Vásquez Gambasica, Pilar Andrés Ruzafa, 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.


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### 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

**Target audience:** Adult pulmonologist/clinician, general practitioner, pediatrician, physician in pulmonary training, clinical researcher, nurse, medical student

**Chairs:**
- Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlinc-Bicêtre, France)

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<td>Omar S. Usmani (London, United Kingdom)</td>
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### 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:** Chair to be confirmed

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<td>Late Breaking Abstract - The role of bronchoscopy in COVID-19 patients during the SARS-CoV-2 pandemic.</td>
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Late Breaking Abstract - Morphological and immunophenotypical features of lung tissue in early phase of COVID-19
Claudia Ravaglia (Forlì, Italy), Claudio Doglioni, Marco Chiosti, 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 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 - 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, Grégory 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

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
Mohamed Abdelrahim (Khartoum, Sudan), Waleed Wael, Mark J Sanders, Raghdha R.S. Hussein, Rania M. Sarhan, Waleed Ramadan

“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

Channel 2
Session 330
18:00 - 19:00

Oral presentation: How to overcome deficiencies in skills in beside 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

Method(s) : General respiratory patient care, Endoscopy and interventional pulmonology, Public health

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

Chairs : Robert Primhak (Sheffield (South Yorkshire), United Kingdom), Carolin Sehlbach (Maastricht, Netherlands)

OA4154
Introduction

OA4155
Negative online images more common in chronic obstructive pulmonary disease (COPD) than asthma or heart disease
Freya Berenyi (Melbourne, Australia), Natasha Smallwood

OA4156
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

OA4157
The effect of Clip-tone® and its smartphone application on optimization of metered-dose inhaler inhalation technique
Mohamed Abdelrahim (Khartoum, Sudan), Waleed Wael, Mark J Sanders, Raghdha R.S. Hussein, Rania M. Sarhan, Waleed Ramadan

OA4158
“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

OA4159
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

OA4160
Pleural procedure confidence and competence in postgraduate UK medical trainees
Andrew Singer (London, United Kingdom), Anand Sundaralingam, William Ricketts

OA4161
Pulmonary hypertension training requirements in the UK. A survey of UK respiratory trainees.
Michael Bridgett (Hassocks, United Kingdom), Brendan Madden
OA4162  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

OA4163  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

OA4164  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), Chair to be confirmed

OA4165  Introduction

OA4166  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

OA4167  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

OA4168  Validation of a deep learning-based computer-aided system for lung nodule detection in a Chinese lung cancer screening program
Sunyi Zheng (Groningen, Netherlands), Xiaonian Cui, Marjolein Heuvelmans, Yihui Du, Grigory Sidorenkov, Monique Dorrius, Raymond Veldhuis, Matthijs Oudkerk, Geertruida De Bock, Peter Van Ooijen, Rozemarijn Vliegenthart, Zhaoxiang Ye

OA4169  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), Xiaonian Cui, Marleen Vonder, Raymond Veldhuis, Monique Dorrius, Zhaoxiang Ye, Rozemarijn Vliegenthart, Matthijs Oudkerk, Peter Van Ooijen

OA4170  A comparison of MRI findings in cases with progressive massive fibrosis and lung cancer
Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Oktay Algin, Gülden Sarı

OA4171  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 Espinás, Josep Borrás, Clemens Aigner, Corinne Balleyguier, David Planchard, Sam Janes, Gabriella Sozzi, Ugo Pastorino, Harry De Koning

OA4172  Lung cancer screening - what does it mean for our practice?
Kiran Desai (Chelmsford, United Kingdom), Claire Calderwood, Erik Skyllberg, Mohammad Moghal, Rajesh Banka

OA4173  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 (Tiel (BT), Belgium), Pia Iben Pietersen (Odense NØ, Denmark)

OA4174  Introduction

OA4175  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 Aydoğdu, Ebru Öztürk, Nilgün Yılmaz Demirci, Haluk Türktaş, Nurdan Köktürk

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 (Chieti (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 Aichaoui, Zied Moatemri, Moenis Mohsen

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, 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
Sorilim Kim, Robert D Abbott, Hye Ryeong Nam, Chol Shin

Reduced lung function and cognitive decline in ageing: a longitudinal cohort study.
Yutong Cai, Chunxi Li, Fanfan Zheng, Xiaobo Han, Yanjun Ma, Rong Hua, Lixin Xie

DECT-derived PBV heterogeneity in a general population sample: The MESA Lung Study

Cardiovascular comorbidities based on impaired pulmonary function in non-smoking population
Joo Hun Park, Ji Eun Park, Won 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, 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, Jennifer Quint, C Michael Roberts, John Hurst

Lung function curve over the life-course using longitudinal data from multiple cohorts
Judith Garcia Aymerich, Anne-Elie Carsin, Nicole Probst-Hensch, Raquel Granell, Shyamali Dharmage, Debbie Jarvis

External validation of two prognostic scores predicting exacerbations in ECLIPSE COPD patients
Spencer Keene, Rachel Jordan, Frank De Vries, Alice Sitch, Peymane Adab, Frits Franssen
OA4193 Discussion

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)

18:00 Introduction  4194

18:05 Exercise responses in patients with sleep apnoea
Ludger Grote (Göteborg, Sweden)  4195

18:15 Sleep and exercise: a bidirectional relationship
Pierrick Arnal (Paris, France)  4196

18:25 Blood pressure and exercise in sleep apnoea
Maria Bonsignore (Palermo, Italy)  4197

18:35 Physical activity and exercise training as therapeutic interventions for sleep apnoea
Monique Mendelson (Grenoble, France)  4198

18:45 Discussion and Q & A  4199

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)

18:00 Introduction  4200

18:05 Refining asthma treatment for mild asthma
Roland Buhl (Mainz, Germany)  4201

18:14 Identifying patients with severe asthma that will benefit from biological therapy
Celeste Michala Porsbjerg (Copenhagen, Denmark)  4202

18:23 What is it about responders and non-responders in asthma? From biology to physiology and treatment
Marco Idzko (Wien, Austria)  4203

18:32 Is severe neutrophilic asthma a separate entity?: Pro
Anke-Hilse Maitland-van der Zee (Amsterdam, Netherlands)  4204

18:41 Is severe neutrophilic asthma a separate entity?: Con
Parameswaran Nair (Hamilton (ON), Canada)  4205

19:00 Discussion and Q & A  4206

Studio Vienna Session 336 18:00 - 19:00

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)

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<th>Case 1 - Author: Sai Charan Govinda Bodi (United Arab Emirates)</th>
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<td>Case 2 - Author: Somayeh Sadeghi (Iran)</td>
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<td>Discussion and Q &amp; A</td>
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<td>Case 3 - Author: Johad Khoury (Israel)</td>
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<td>Discussion and Q &amp; A</td>
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<tr>
<td>Case 4 - Author: Anca Macri (Romania)</td>
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<tr>
<td>Discussion and Q &amp; A</td>
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<td>18:00</td>
<td>Introduction</td>
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<td>18:02</td>
<td>Presentation of cases by the session facilitator</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: 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.

**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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<td><strong>Introduction</strong></td>
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<td>09:35</td>
<td></td>
<td><strong>Pulmonary embolism in China: disease burden, management and prevention</strong></td>
<td>Zhenguo Zhai (Beijing, China)</td>
<td>4304</td>
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<td>09:45</td>
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<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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<td>09:55</td>
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<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>
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<td>10:05</td>
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<td><strong>State of the art in pulmonary hypertension</strong></td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<td>10:15</td>
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<td><strong>Discussion and Q&amp;A</strong></td>
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# Oral presentation: New frontiers in cystic fibrosis imaging and lung physiology

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Airway diseases

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

**Chairs:** Alex Horsley (Manchester, United Kingdom), Mirjam Stahl (Berlin, Germany)

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<th>OA4309</th>
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| OA4310 | Late Breaking Abstract - Use of ultra-low dose CT does not impact structure-function relationships in early Cystic Fibrosis lung disease  
Katie Bayfield (Sydney, Australia), Oliver Weinheimer, Christie Boyton, Rachel Fitzpatrick, Anna Middleton, Brendan Kennedy, Anneliese Blaxland, Geshani Jayasuriya, Neil Caplain, Mark O Wielputz, Lifeng Yu, Craig J Galban, Terry E Robinson, Brian Bartholmai, Per Gustafsson, Dominic Fitzgerald, Hiran Selvidurai, Paul D Robinson |
| OA4311 | Lung clearance index and functional MRI outcomes to assess lung disease in preschool children with cystic fibrosis  
Bettina Sarah Frauchiger (Bern, Switzerland), Corin Willers, Yasmin Salem, Philipp Latzin, Kathryn Ramsey |
| OA4312 | Longitudinal course of clinically measured lung clearance index in children with cystic fibrosis  
Bettina Sarah Frauchiger (Bern, Switzerland), Severin Binggeli, Sophie Yammine, Ben Spycher, Kathryn Ramsey, Philipp Latzin |
| OA4313 | Early determinants of lung disease in children with cystic fibrosis  
Sanja Stanojevic (Halifax (NS), Canada), Stephanie Davis, Db Sanders, Lucy Perem, Michelle Shaw, Julia Guido, Renee Jensen, Sylvia Jara, Charles Clem, Melina Solomon, Neil Sweeney, Hartmut Grasemann, Valerie Waters, Felix Ratjen |
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 Sweezeey, Stephanie Davies, D.B Sanders, Nancy Mcdonald, Sarah Isaac, Sylvia Jara, Charles Clem, Felix Ratjen

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

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

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

Introduction

Late Breaking Abstract - IPF lung-ECM subjected to cyclic stretch affect cellular activity

Bryan Falcones Olarte (Barcelona, Spain), Linda Elowsson Rendin, Anna Löfdahl, Isaac Almendros Lopez, Jorge Otero, Xiao-Hong Zhou, Martin Silverborn, Leif Bjermer, Göran Dellgren, Ramon Farré, Gunilla Westergren-Thorsson

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

Disease modelling following organoid-based expansion of airway epithelial cells


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

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

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

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 Micallef, 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

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

Discussion
Disease(s): Interstitial lung diseases, Airway diseases
Method(s): Imaging, Pulmonary function testing, Physiology, General respiratory patient care

**OA4329** Introduction

**OA4330** 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 Jm Parker

**OA4331** 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

**OA4332** 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, Bharath Ambale-Venkatesh, Joao Lima, Jim Wild, Emlyn Hughes, R. Graham Barr, Wei Shen

**OA4333** 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

**OA4334** Robust automatic segmentation of airway using multi-resolution deep learning
Stijn Bonte (Kontich, Belgium), Maarten Lanclus, Joana Costa, Cedric Van Holsbeke

**OA4335** Discussion

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**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

**OA4336** Introduction

**OA4337** Ivacaftor/lumacaftor changes the lung microbiome and metabolome in cystic fibrosis patients

**OA4338** 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

**OA4339** 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

**OA4340** 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

**OA4341** 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

**OA4342** Using integrated omics to assess the effects of rhinovirus infection in children with Cystic Fibrosis (CF).
### OA4343

**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

### OA4344

**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 Gramaglia, Marina Tadolini, Jessica Mencarini, Gina Guliano, Stefania Cerri, Giuliano Montemurro, Giulia Gardini, Andrea Calcagno, Federico Dente, Michele Trezzi, Paola Faverio, Mario Malerba, Giulia Cucchietto, Enrico Tortoli, Meldi Mirsaeidi, Antonella Previdi, Andrea Gori, Luigi Rufolo Codecasa, Francesco Blasi, On Behalf Of The Irene Network

### OA4345

**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

### OA4346

**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

### OA4347

**Discussion**

**Studio Madrid**  
**Session 358**  
**09:30 - 10:30**

**Clinical trials session: ALERT: Ventilation and rehabilitation**

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Chairs:** Andrew Bush (London, United Kingdom), Charlotte Suppli Ulrik (Virum, Denmark)

**Discussants:** Frits M.E. Franssen (Horn, Netherlands)

#### RCT4348

**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, Maria 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 Molkési

#### RCT4349

**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

#### RCT4350

**Late Breaking Abstract - WEANing From Noninvasive Ventilation - ‘WEANIV’ Study**

Aylin Özsancak Üğurlu (Istanbul, Turkey), Aylin Özsancak Üğurlu, Zuhal Karakurt, Raffaele Scala, Ezgi Ozylmaz, Begum Ergan, Stefano Nava, Fabiano Dimarco, Eylem Tuncay, Giuseppina Carleglio, Orhan Othman Hasan, Sara Betti, Lisa Giuliani

#### RCT4351

**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

#### RCT4352

**Wrap-up by discussant and discussion**

**RCT4353

**Late Breaking Abstract - Telerehabilitation compared to centre-based pulmonary rehabilitation: a randomised controlled equivalence trial.**

Narelle Cox (Melbourne (VIC), Australia), Narelle Cox, Christine Mcdonald, Ajay Mahal, Jennifer Alison, Richard Wootton, Paolo Zanaboni, Catherine Hill, Janet Bondarenko, Heather Macdonald, Kathryn Barker, Hayley Crute, Christie Mellercik, Bruna Wakec, Helen Bourinos, Aroub Lahham, Amanda Nichols, Pawel Czyynpr, Leah Jennings, Monique Corbett, Emma Handley, Angela Burge, Anne Holland

#### RCT4354

**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

#### RCT4355

**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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<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>
<td></td>
</tr>
<tr>
<td>09:55</td>
<td>Pathologist and pulmonologist at crossroads</td>
<td>Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
<td></td>
</tr>
<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>
<td></td>
</tr>
<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), Wisia A. Wedzicha (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Location</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Introduction</td>
<td>Rebecca Craven (London, United Kingdom)</td>
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<tr>
<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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<tr>
<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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<tr>
<td>10:02</td>
<td>Management of severe asthma in children</td>
<td>Marielle W.H. Pijnenburg (Rotterdam, Netherlands)</td>
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<tr>
<td>10:15</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<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.
Disease(s) : Thoracic oncology
Method(s) : Endoscopy and interventional pulmonology
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon
Chairs : Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

09:30 Introduction

09:35 Endobronchial ultrasound and trans-esophageal endobronchial ultrasound
Jouke T. Annema (Amsterdam, Netherlands), Laurence M.M.J. Crombag (Amsterdam, Netherlands)

09:50 Navigation bronchoscopy and cryoprobe bronchoscopy
Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)

10:05 Tumour ablation
Ralf Eberhardt (Heidelberg, Germany), Konstantina Kontogianni (Heidelberg, Germany)

10:15 Stent
Felix J.F. Herth (Heidelberg, Germany), Konstantina Kontogianni (Heidelberg, Germany)

10:25 Radial probe endobronchial ultrasound and needle-based confocal laser endomicroscopy
Jouke T. Annema (Amsterdam, Netherlands), Tess Kramer (Amsterdam, Netherlands)

10:35 Discussion and Q & A

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)

10:40 Introduction

10:45 Breathlessness, could it be asthma?
Mike Thomas (Southampton (Hampshire), United Kingdom)

10:58 Breathlessness, could it be COPD?
Miguel Román Rodriguez (Palma De Mallorca, Spain)

11:11 "No Smoking Week" and other activities that clinicians can do or support
Lucia Gorreto Lopez (Sta Maria del Cami, Spain)

11:24 Discussion and Q & A

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)

OA4381 Introduction

OA4382 Late Breaking Abstract - Differences in flavorant levels and synthetic coolant use between USA, EU and Canadian Juul products
Hanno Erythropel (New Haven, United States of America), Paul T. Anastas, Suchitra Krishnan-Sarin, Stephanie S. O'Malley, Sven E. Jordt, Julie B. Zimmerman
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA4383</td>
<td>Treatment complication rates in continued smokers vs quitters after a diagnosis of lung cancer: a cohort study</td>
<td>Rachel Gemine (Llanelli (Dyfed), United Kingdom), Kirsty Lanyon, Gareth Davies, Keir Lewis</td>
</tr>
<tr>
<td>OA4384</td>
<td>Flavor-solvent reaction products in electronic cigarette liquids activate respiratory irritant receptors and elicit cytotoxic metabolic responses in airway epithelial cell</td>
<td>Sven-Eric Jordt (Durham, NC, United States of America), Ana I. Caceres, Hanno Erythropel, Julie B. Zimmerman, Tamara Dewinter, Sairam V. Jabba</td>
</tr>
<tr>
<td>OA4385</td>
<td>Outpatient smoking cessation: preliminary findings of a non-inferiority RCT comparing blended with face-to-face delivery mode</td>
<td>Lutz Siemer (Emschde, Netherlands), Marcel E. Pieterse, Somaya Ben Allouch, Marloes G. Postel, Robbert Sanderman, Marjolein Brusse-Keizer</td>
</tr>
<tr>
<td>OA4386</td>
<td>Asthma do not counteract smoking initiation</td>
<td>Linnea Hedman (Luleå, Sweden), Helena Backman, Martin Andersson, Caroline Stridsman, Eva Rönnmark</td>
</tr>
<tr>
<td>OA4387</td>
<td>A cute health effects after passive e-vape among patients with COPD - an RCT exposure study</td>
<td>Karin Rosenkilde Laursen (Arhus, Denmark), Jakob H. Bonlokke, Merete Bilde, Marianne Glasius, Elisabeth Bendstrup, Søren K. Kjergaard, Anna-Carin Olin, Torben Sigsgaard</td>
</tr>
<tr>
<td>OA4388</td>
<td>Evolution in disease severity during the E-cigarette or Vaping-Associated Lung Injury (EVALI) outbreak</td>
<td>Michael Lanspa (Salt Lake City, United States of America), Dixie Harris, Braden Anderson, Sean Callahan, Susan Rea, Dave Collingridge, David Gudry, Colin Grissom, Denita Blagev</td>
</tr>
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</table>

Channel 3  
Session 364  
10:40 - 11:40  

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** Hilario Nunes (Bobigny, France), Paolo Spagnolo (Padova (PD), Italy)

| OA4390  | Discussion                                                                 |                                                                                                                                         |

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<thead>
<tr>
<th>OA4391</th>
<th>Introduction</th>
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<tbody>
<tr>
<td>OA4392</td>
<td>Whole Exome Sequencing in familial sarcoidosis targets pathways which may help early diagnosis of severe forms of sarcoidosis.</td>
<td>Alain Calender (Lyon, France), Dominique Valeyre, Thomas Weichhart, Valérie Besnard, Hilario Nunes, Yves Pacheco, § Group Sarcoidosis France</td>
</tr>
<tr>
<td>OA4393</td>
<td>Active clinical pulmonary sarcoidosis is characterized by significantly reduced apoptosis rate of alveolar lymphocytes (AL)</td>
<td>Tomasz Wandtke (Bydgoszcz, Poland), Piotr Kopiński, Grzegorz Przybylski, Ewelina Wedrowska, Maciej Gnass, Joanna Golitńska, Karina Szablowska, Joanna Chorostowska-Wynimko</td>
</tr>
<tr>
<td>OA4394</td>
<td>Autophagy is closely related to the inflammatory process in sarcoidosis uveitis</td>
<td>Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Clarice X. Lim, Pascal Sève, Dominique Valeyre, Florence Jeny, Hilario Nunes, Thomas Weichhart, Yves Pacheco</td>
</tr>
<tr>
<td>OA4395</td>
<td>Exhaled breath analysis using eNose technology in patients with sarcoidosis</td>
<td>Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland-Van Der Zee, Marlies Wijsenbeek</td>
</tr>
<tr>
<td>OA4396</td>
<td>The autoimmune criteria of sarcoidosis</td>
<td>Anna Starshinova (St. Petersburg, Russian Federation), Ulia Zinchenko, Anna Malkova, Natalia Basantsova, Igor Kudryavtsev, Michail Filatov, Vladimir Burdakov, Piotr Yablonskiy</td>
</tr>
<tr>
<td>OA4397</td>
<td>Mortality in a well-defined group of predominantly caucasian sarcoidosis patients</td>
<td>Marloes Huitema (Utrecht, Netherlands), Harold Mathijsen, Annelies L M Bakker, Repke J Snijder, Johannes Jurgen Mager, Jan C. Grutters, Martijn Cornelis Post</td>
</tr>
</tbody>
</table>
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 Grunewald, Kerstin Brismar

Discussion

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 (Grenoble, France), Georgios Kaltsakas (Athens, Greece)

Introduction

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

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

Determinants of exercise capacity in chronic obstructive pulmonary disease

Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Anja Pietzke-Calcagnile, Matthias Boentert, Jens Spießhöfer, Peter Young, Winfried Randerath

Impact of bronchodilator therapy on diaphragmatic function in sleep in COPD

Nicolle J. Domnik (Kingston (ON), Canada), Robin Scheeren, Sarah Taylor, Helen Driver, Sophie Crinion, J Alberto Neder, Denis O'Donnell

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

Diaphragm contractile fraction: A novel ultrasound marker of diaphragm involvement in patients with amyotrophic lateral sclerosis

Mathilde Bouchard-Boivin (Montréal, Canada), Genevieve Matte, Karine Garneau, Stephan Botez, Bruno-Pierre Dubé

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

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, Niranjani Setty, Johnson Samuel

Pilot study to assess physician compliance in non-invasive ventilation titration based on venous blood gases versus arterial blood gases in acute respiratory failure patients

Jien Cheng (Walkerville, Australia), Vinod Aiyappan, Tanja Effing, Stephen Quinn, Dimitar Sajkov

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

Discussion
Effects of High Flow Nasal Cannula on the Coordination between Swallowing and Breathing in Postextubation Patients
Pornpan Rattanajiajaroen (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 Schmoor, 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, Poliana Santos, Guilherme Aréas, 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

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)

Lung inflammation in cystic fibrosis: an overlooked therapeutic target?
Stephen M. Stick (Perth (WA), Australia)

Transition from adolescent to adult care
Trudy Havermans (LEUVEN, Belgium)

Gastrointestinal issues in cystic fibrosis and their relevance to the lungs
Barry Plant (Cork, Ireland)

Comorbidities of advanced diseases in patients with cystic fibrosis
Josje Altenburg (Amsterdam (NH), Netherlands)

Changing demographics of cystic fibrosis and models of care
Stuart Elborn (Belfast (Belfast), United Kingdom)

Discussion and Q&A

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)

No need to treat spontaneous pneumothorax
Graham Simpson (Stratford, Australia)
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker details</th>
<th>Reference</th>
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<tbody>
<tr>
<td>10:55</td>
<td>Spontaneous pneumothorax need to be treated</td>
<td>Nick Maskell (Bristol (Avon), United Kingdom)</td>
<td>4428</td>
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<tr>
<td>11:05</td>
<td>Aspiration of pneumothorax</td>
<td>Andreas Thelle (Bergen, Norway)</td>
<td>4429</td>
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<tr>
<td>11:15</td>
<td>Role of surgery in pneumothorax treatment</td>
<td>Speaker to be confirmed</td>
<td>4430</td>
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<tr>
<td>11:25</td>
<td>Discussian and Q &amp; A</td>
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<td>4431</td>
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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:** Wisia A. Wedzicha (London, United Kingdom), Marc Humbert (Le Kremlin-Bicêtre, France)

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<tr>
<td>10:40</td>
<td>Introduction</td>
<td></td>
<td>4432</td>
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<tr>
<td>10:45</td>
<td>Overview of WHO global emergencies</td>
<td>Raquel Duarte (Porto, Portugal)</td>
<td>4433</td>
</tr>
<tr>
<td>10:55</td>
<td>Modelling: hot spots and targeted contacts</td>
<td>Rein Houben (London, United Kingdom)</td>
<td>4434</td>
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<tr>
<td>11:05</td>
<td>Diagnostic tests: what are the questions and what do we know so far?</td>
<td>Morten Ruhwald (Copenhagen, Denmark)</td>
<td>4435</td>
</tr>
<tr>
<td>11:15</td>
<td>Establishing new treatments: the role of RCTs</td>
<td>Lorenzo Guglielmetti (Paris, France)</td>
<td>4436</td>
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<tr>
<td>11:25</td>
<td>Discussion and Q &amp; A</td>
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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 coli 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)

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<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:40</td>
<td>Introduction</td>
<td></td>
<td>4438</td>
</tr>
<tr>
<td>10:45</td>
<td>Valve: emphysema</td>
<td>Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)</td>
<td>4439</td>
</tr>
<tr>
<td>11:00</td>
<td>Coil: emphysema</td>
<td>Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)</td>
<td>4440</td>
</tr>
<tr>
<td>11:10</td>
<td>Rheoplasty: bronchitis</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)</td>
<td>4441</td>
</tr>
<tr>
<td>11:25</td>
<td>Targeted lung denervation: COPD</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)</td>
<td>4442</td>
</tr>
</tbody>
</table>
Discussion and Q&A

Studio Vienna  
Session 371  
11:40 - 12:50

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 hemithorax, 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), Chair to be confirmed

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**
## Oral presentation: Genetics and genomics of pulmonary arterial hypertension

### Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):** Pulmonary vascular diseases | Interstitial lung diseases

**Method(s):** Cell and molecular biology | General respiratory patient care | Imaging

**Chairs:** Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom), Eric Austin (Nashville, United States of America)

### OA4457 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 Elinson, 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 Nicholas, Laura Southgate, David-Alexandre Tréguet, Richard Trembath, Inga Prokopenko, Stefan Gräf, Nicholas Morrell, Dennis Wang, Allan Lawrie, Martin Wilkins

### OA4458 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 Tilley, Divya Pandya, Na Zhu, Marcella Cogliano, Carrie L Welch, Anna W Coleman, N.I.H.R Biosource Rare Diseases Consortium, Yufeng Shen, Andrew Swift, Wendy Chung, William C Nichols, Nick W Morrell, Stefan Graf

### OA4459 Multi-omic profiling in pulmonary arterial hypertension

David Montani (Le Kremlin-Bicêtre, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, Pierantonio 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

### OA4460 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 Xanthoulis, Satenik Harutyunova, Benjamin Egenlauf, Katrin Milger-Kneidinger, Stefan Rosenkrankz, Ralf Ewert, Mareike Lankelt, Tobias Lange, Katrin Hinderhofer, Ekkehard Grünig

### OA4461 Protein truncating mutations in ATP13A3 promote pulmonary arterial hypertension

Ekaterina Legehenko (Cambridge, United Kingdom), Bin Liu, James West, Peter Vangheluwe, Paul Upton, Nicholas Morrell

### OA4462 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 Guillamot, Claire Dauphin, Céline Chabanne, Emmanuel Boiffard, Vincent Cottin, Frédéric Perros, Gérald Simonneau, Sitbon Olivier, Florent Soubrier, Damien Bonnet, Martine Remy Jardin, Ari Chaouat, Marc Humbert, David Montani

### OA4463 Haplod genetic screening identifies a novel regulator of BMPR2

Benjamin Dunmore (Cambridge, United Kingdom), Stephen Burr, Paul Upton, James Nathan, Nicholas Morrell

## 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

**Disease(s):** Interstitial lung diseases | Respiratory critical care | Airway diseases | Pulmonary vascular diseases

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

**Chairs:** Darcy Wagner (Lund, Sweden), Olivier Burgy (Dijon, France)

### OA4466 Introduction

**Late Breaking Abstract - Aminopeptidase N/CD13 distinguishes two populations of colony-forming mesenchymal stromal cells in human lung tissue**

Måns Kadeffors (Malmö, Sweden), Sara Rolandsson Enes, Maria Weitoft, Stefan Scheding, Gunilla Westergren-Thorsson

### OA4467 Late Breaking Abstract - Myeloid-derived microvesicles as acute mediators of sepsis-induced lung vascular inflammation

Dianeira Maria Tsiridou (London, United Kingdom), Kieran Patrick O’Dea, Ying Ying Tan, Masao Takata

### OA4468 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
### 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.

**Diseases:** Paediatric respiratory diseases

**Tags:** 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)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:50</td>
<td>Introduction</td>
<td></td>
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<tr>
<td>11:55</td>
<td>Is it more than just asthma?</td>
<td>Marijke Proesmans (Leuven, Belgium)</td>
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<tr>
<td>12:01</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:06</td>
<td>Persistent non-tuberculous mycobacteria in cystic fibrosis</td>
<td>Manisha Rampaul (Leicester (Leicestershire), United Kingdom)</td>
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<tr>
<td>12:12</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:17</td>
<td>Sudden onset of a thoracic mass</td>
<td>Ine Van Dijck (Leuven, Belgium)</td>
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<tr>
<td>12:23</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:28</td>
<td>A deadly cough and the eosinophil</td>
<td>Louise Thomson (Glasgow (Glasgow), United Kingdom)</td>
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<tr>
<td>12:34</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:39</td>
<td>A case of necrotizing pneumonia with an unusual presentation</td>
<td>Nadir Demirel (Rochester, United States of America)</td>
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<tr>
<td>12:45</td>
<td>Discussion and Q &amp; A</td>
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### 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
Late Breaking Abstract - Nivolumab as salvage Treatment of Malignant Pleural Mesothelioma: a Single-Centre Experience
Marnix Lebeer (Leuven, Belgium), Jo Raskin, Charlotte De Bondt, Annemieke Snoeckx, Reinier Wener, Karen Zwaenepoel, Patrick Pauwels, Annelies Janssens, Jan Van Meerbeek

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 Fantaci

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, Mogens Vyberg, Johnni Hansen, Jenette Creaney, Oluf Dimitri Roe

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 Yam

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 Fsdni, Stephen Montefort, Ioannis Psallidas, Najib Rahman

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

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 Fsdni, Najib Rahman, Ioannis Psallidas

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

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

Introduction

Symposium: How much lung disease is really caused by work, and how to assess the worker who wishes to continue working?

Statement of findings by the Official European Respiratory Society and the American Thoracic Society

Aims: To describe the contribution of inhalational workplace hazards to the burden of nonmalignant lung diseases; to identify respiratory conditions with an estimated occupational burden 10%, including asthma, COPD, chronic bronchitis, idiopathic pulmonary fibrosis and hypersensitivity pneumonitis, and other noninfectious granulomatous lung diseases (sarcoidosis, PAP, community acquired pneumonia); to describe the contribution of workplace exposure to various respiratory diseases and strategies that can improve the recognition and prevention of these diseases; and to evaluate various work, workplace and fitness considerations for patients with occupational lung diseases.

Disease(s): Airway diseases, Interstitial lung diseases, Respiratory infections

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational)

Chairs: Charlotte Suppli Ulrik (Virum, Denmark), Andrew Bush (London, United Kingdom)
### 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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<td>4505</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>
<td>4506</td>
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<tr>
<td>12:05</td>
<td>New antifibrotic drugs: will interstitial diseases patients still need lung transplantation?</td>
<td>Sara Tomassetti (Florence, Italy)</td>
<td>4507</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>
<td>4508</td>
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<tr>
<td>12:25</td>
<td>Figures and outcomes of lung transplantation</td>
<td>Jens Gottlieb (Hannover, Germany)</td>
<td>4509</td>
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<tr>
<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:** Wisia A. Wedzicha (London, United Kingdom), Marc Humbert (Le Kremlin-Bicêtre, France)

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<th>Time</th>
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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>
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<tr>
<td>12:05</td>
<td>Is there a problem with oral corticosteroid use in asthma?</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<tr>
<td>12:15</td>
<td>Is there a problem with inhaled corticosteroid use in COPD?</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
<td>4514</td>
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<td>12:25</td>
<td>ERS Short Guideline: Inhaled corticosteroid withdrawal in COPD</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
<td>4515</td>
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<td>12:35</td>
<td>Discussion and Q &amp; A</td>
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<td>13:15</td>
<td>INDUSTRY DEVICE MINI SYMPOSIA</td>
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<td>13:15</td>
<td>INDUSTRY LUNCHTIME SYMPOSIUM</td>
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<td>Channel 1</td>
<td>Session 388</td>
<td>14:30 - 15:30</td>
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<td>Language session: French programme 2020: Part I</td>
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<td>A joint ERS/SPLF session</td>
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<td>Disease(s) : Airway diseases, Interstitial lung diseases, Respiratory critical care</td>
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<td>Tag(s) : Clinical</td>
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<td>Chairs : Bernard Maitre (Créteil Cedex, France), Marc Humbert (Le Kremlin-Bicêtre, France)</td>
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<td>14:30</td>
<td>Introduction</td>
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<td>14:35</td>
<td>Des lésions précancéreuses au cancer invasif / From precancerous lesions to invasive carcinoma</td>
<td>Céline Masaux (Marseille, France)</td>
<td>4555</td>
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<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>
<td>4556</td>
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<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>
<td>4557</td>
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<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>
<td>4558</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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<td>4559</td>
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**Channel 2**

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<th>Session 389</th>
<th>14:30 - 15:30</th>
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**Oral presentation: Chronic cough: only symptom or disease?**

Abstracts presented in this session are also available as E-posters from 24 August 2020

<table>
<thead>
<tr>
<th>Disease(s) : Airway diseases, Interstitial lung diseases, Sleep and breathing disorders, Respiratory critical care</th>
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<tr>
<th>Method(s) : General respiratory patient care, Pulmonary function testing, Epidemiology, Public health, Respiratory intensive care</th>
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<th>Chairs : Alyn Hugh Morice (Cottingham, United Kingdom)</th>
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<tr>
<th>OA4560 Introduction</th>
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| OA4561 Novel capsaicin challenge methodology: a new diagnostic endpoint? | Kimberly Holt (Manchester, United Kingdom), Rachel Dockry, Joanne Mitchell, John Belcher, Jaclyn Smith |
|---------------------------------------------------------------|

| OA4562 EPAC drives the anti-tussive effect of E P4 receptors on airway sensory nerves | 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 |
|---------------------------------------------------------------|

| OA4563 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, Jenifer Yap, Satoshi Fukuda, Takehiro Uemura, Tomoko Tajiri, Hirotsubo 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 Mccrea, Azher Hussain, Raymond Evers, Bennett Ma, John Laabs, Carmen Rillera, Graigroy Garrett, Yun Li, Marie-Helen Vallee, Deborah Panebianco, S. Aubrey Stoch, Marain 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
Nichicha 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, Filipe 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 Turzhitsky, Paul Dexter, Zhi Han, Zuoyi Zhang, Wei Shao, Anna Roberts, Megan Metzger, Jarod Baker, Carmen La Rosa, Jessica Weaver, Vishal Bali, Kun Huang

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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)

OA4572 Introduction

OA4573 LSC - 2020 - The respiratory microbiome and metabolome in chronic hypersensitivity pneumonitis
Rachele Invernizzi (London, United Kingdom)

OA4574 Methotrexate 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 Kart Jacobsen, Tine Iskov Kopp, René Lindholm Cordtz, Anna Svarre Jacobsen, Niels Seersholm, Lene Dreyer

OA4575 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 Dettmer, Jens Vogel-Claussen, Antje Prasse, Lars Knudsen, Frank Wacker, Jan Fuge, Hoen-Oh Shin

OA4576 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 Otaola, Diego Castillo Villegas, Craig Glazer, Heiko Müller, Carl Cockey, Manuel Quaresma, Toby M Maher

OA4577 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**


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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)

**14:30**

**Introduction**

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**14:35**

**Pulmonary hypertension in a COPD Patient**

Johad Khoury (Elaboun, Israel)

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**14:41**

**Discussion and Q & A**

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**14:46**

**Correct diagnosis and treatment options for a boy with significant dyspnea on exertion and markedly reduced exercise capacity**

Polona Mlakar (Ljubljana, Slovenia)

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**14:52**

**Discussion and Q & A**

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**14:57**

**The use of genetic testing in an atypical presentation of pulmonary veno-occlusive disease**

Alexander MacLellan (Glasgow, United Kingdom)

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**15:03**

**Discussion and Q & A**

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**15:08**

**Patient with ankylosing spondylitis and pulmonary hypertension**

Anastasia Anthi (Athens, Greece)

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**15:14**

**Discussion and Q & A**

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**15:19**

**A case of pulmonary choriocarcinoma presenting as a pulmonary thromboembolism**

Rodrigo Zebadua (Ciudad de México, Mexico)

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**15:25**

**Discussion and Q & A**

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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)

**OA 4591**

**Introduction**

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**OA 4592**

**Chemotherapy outcome of pulmonary tuberculosis with mutations in the FN1 and TNXB genes**

Kirill Samsonov (Omsk, Russian Federation), Anna Mordyk

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**OA 4593**

**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 Chernyaeva, Natalia Solovieva

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**OA 4594**

**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

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

Symposium: Fear and anxiety, psychological wellbeing and prevention of psychological distress in chronic lung diseases
Risk factors and novel treatment strategies

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)

14:50 Nurse-led cognitive behavioral therapy in COPD
Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom)
Clinical trials session: ALERT: Asthma in adults and children

Abstracts presented in this session are also available as E-posters from 24 August 2020

Chairs: Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

Discussants: Celeste Michala Porsbjerg (Copenhagen, Denmark), Mina Gaga (Athens, Greece)

RCT4611 Introduction

RCT4612 Late Breaking Abstract - Masitinib in severe asthma: Results from a randomized, phase 3 trial
Pascal Chanez (Marseille, France), Lavinia Davidescu, Pascal Chanez, Grigory Ursol, Oleksii Korzh, Vikranth Deshmukh, Lesia Kuryk, Nortje Monja-Marie, Olga Godlevska, Gilles Devouassoux, Eduard Khodosh, Elliot Israel, Colin Mansfield, Olivier Hermine

RCT4613 Late Breaking Abstract - Dupilumab long-term safety and efficacy in patients with asthma: LIBERTY ASTHMA TRAVERSE

RCT4614 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

RCT4615 Wrap-up by discussant and discussion
Celeste Michala Porsbjerg (Copenhagen, Denmark)

RCT4616 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, Neill Martin, Bhabita Mayer, Robert Chan, Joseph Han

RCT4617 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

RCT4618 Late Breaking Abstract - Corticosteroid optimisation in severe asthma using composite biomarkers to adjust dose versus a symptom/risk-based algorithm
Tim Hardman (Kingston-Upon-Thames, United Kingdom), Tim Hardman, Liam Heaney, John Busby, Catherine Hanratty, Ratko Duknkanovic, Ashley Woodcock, Samantha Walker, Joseph Arron, David Choy, Peter Bradding, Christopher Brightling, Rebeka Chaudhuri, Douglas Cowan, Rob Niven, Stephen Fowler, Tim Harrison, Peter Howarth, Jim Lordan, Adel Mansur, Andrew Menzies-Gow, Douglas Robinson

RCT4619 Wrap-up by discussant and discussion
Mina Gaga (Athens, Greece)
Chairs: Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Chair to be confirmed
Discussants: Antoni Torres (Barcelona, Spain)

Case 1 - Author: Hsiao-Ling Chia (Taiwan)

Discussion and Q & A

Case 2 - Author: Baiba Laiko (Latvia)

Discussion and Q & A

Case 3 - Author: Christoph Fisser (Germany)

Discussion and Q & A

Case 4 - Author: Anabell Rojas (Dominican Republic)

Discussion and Q & A

14:30 Introduction

14:32 Presentation of cases by the session facilitator
Antoni Torres (Barcelona, Spain)

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)

15:40 Introduction

15:45 Allergy testing and immunotherapy guidelines
Ioana Agache (Brasov (Brasov), Romania)

15:55 High-dimensional multivariable analysis of asthma and its co-morbidities
Bianca Schaub (Germering, Germany)

16:05 Upper airways in asthmatic patients
Apostolos Bossios (Stockholm, Sweden)

16:15 Linking clinical algorithms to precision medicine
Matteo Bonini (Rome, Italy)

16:25 Does the endotype-driven approach translate into improved quality of life?
Breda Flood (Gorey, Ireland)

16:30 Discussion and Q & A

Channel 2  
Session 398  15:40 - 16:40
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)
Late Breaking Abstract - Identifying preventable early risk factors for asthma in Indigenous children: a population cohort study in Western Australia.
Bronwyn Brew Haasdijk (Sydney (NSW), Australia), Alison Gibberd, Guy Marks, Natalie Strobel, Wendy Allen, Louisa Jorm, Georgina Chambers, Sandra Eades, Bridgette Menamara

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 Sicras Mainar, Aram Sicras Navarro, Clara Engroba Teijeiro

Late Breaking Abstract - Restrictive spirometry, asthma and respiratory symptoms; a cross-sectional analysis from two multicentre studies.
Emil Ekborn (Uppsala, Sweden), Össur Emilsson, Andrei Malinovschi, Christer Janson

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 Lundback, Eva Rönmark, Lauri Lehtimäki, Paula Pallasaho, Pinja Ilmarinen, Hannu Kankaanranta

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

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 Rantalata (Oulu, Finland), German Tapia, Maria Christine Magnus, Øystein Karlstad, Ketil Stordal, Siri Håberg, Lars Christian Stene, Jouni J K Jaakkola, Wenche Nystad

SABA overreliance and physician visits in Canada
Stephen G Noorduyn (Mississauga, Canada), Stephen Noorduyn, Mena Soliman, Karissa Johnston, Qian Christina, Paul Hernandez, Erika Pfenz

Real-world treatment patterns of benralizumab therapy for patients with severe asthma
Stephen G Noorduyn (Mississauga, Canada), Alain Gendron, Niruoshan Sriskandarajah, Karissa Johnston, Cathy M Osenenko, Stephen G Noorduyn

Spirometric phenotypes from early childhood to young adulthood – A CADSET (Chronic Airway Disease Early Stratification) study

Risk of tuberculosis in pediatric patients treated with biological agents
Ayse Tana Aslan (Ankara, Turkey), Pelin Asfuruglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Tugba Sismanlar Eyuboglu, Emine Nur Sunar Yayla, Sevean Azime Bakkaloglu Ezgu, Husnu Oguz Soylemezoglu, Necla Buyan

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

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
OA4653  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

OA4654  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

OA4655  Age-dependent response of the human nasal epithelium to rhinovirus infection  
Loretta Müller (Bern, Switzerland), Jakob Usemann, Marco P Alves, Nicole Ritz, Philipp Latzin

OA4656  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 Vagheggini (Volterra (PI), Italy)

OA4657  Introduction

OA4658  In vitro electrostimulation reveals a lack of muscle adaptation in myotubes from COPD patients  
Pascal Pomies (Montpellier Cedex 5, France), Matthias Catteau, Emilie Passerieux, Léo Blervaque, Bronia Ayoub, Jacques Mercier, Farès Gouzi, Maurice Hayot

OA4659  INCREASED MYOSTATIN AS A NEGATIVE REGULATOR OF MUSCLE REGENERATION POTENTIAL IN SARCOPENIC COPD PATIENTS: CLINICAL IMPLICATIONS  
Antonio Sancho Muñoz (, Spain), Maria Guittart, Diego Rodriguez, Joaquim Gea, Juana Martinez Llorens, Esther Barreiro Portela

OA4660  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

OA4661  Effects of high flow nasal cannula during exercise in COPD patients with exercise induced desaturation  
Natthawan Sanguanwong (Uthaitani, Thailand), Nareerat Sae-Eao, Anan Ananpipatkul, Dittapol Muntham, Worawan Sirichana

OA4662  Benefits of high-flow nasal cannula oxygen therapy on exercise capacity following acute exacerbation in ILD patients  
Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Masaki Oomagari, Yorihide Yanagita, Hikaru Machiguchi, Yuichi Tawara, Koshi Yokomura

OA4663  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

OA4664  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  
Method(s): Epidemiology, General respiratory patient care, Respiratory intensive care, Cell and molecular biology, Public health  
Chairs: Stefano Aliberti (Milano (MI), Italy), Chair to be confirmed

OA4665  Introduction

OA4666  Late Breaking Abstract - Biofilm formation by Pseudomonas aeruginosa in empyema  
Wang Ke (Nan ning, China), Jinhua Liang , Zhengqiang Zhang , Jinlong Li , Jinliang Kong

OA4667  Decreased 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, Jae hoon Lee, Al Jephson, Nathan Jenson, Missy Walker, Jeremy Irvin, Matthew Lungren, Jason Carr, Raj Srivastava, Todd Allen
OA4668  The impact of a stewardship programme on outcomes in patients admitted with community-acquired pneumonia
Markus Fally (Copenhagen, Denmark), Simone Israelsen, Britta Tarp, Thomas Benfield, Pernille Ravn

OA4669  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

OA4670  Association of doxycycline and mortality in patients hospitalized with pneumonia
Eric Mortensen (Simsbury, United States of America), Mark Metersky, Antonio Anzueto

OA4671  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

OA4672  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 Zalacain Jorge

OA4673  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 Asciak, Robert F. Miller, Nick A. Maskell, Ioannis Psallidas, Timothy Hinks, Derrick Crook, Najib M. Rahman

OA4674  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

Tag(s): Clinical

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 4675

15:45  Genetic predisposition and the environment
Maria Molina Molina (Barcelona, Spain) 4676

15:54  Air pollution: particle size matters
Hugh Davies (Vancouver, Canada) 4677

16:03  Interstitial lung disease and air pollution: in India and beyond
Sheetu Singh (Jaipur (Rajasthan), India) 4678

16:12  Intrinsic and extrinsic environmental factors in IPF
Ganesh Raghu (Seattle, United States of America) 4679

16:21  Microbiome effects on immunity, health and diseases of the lungs
Katerina Antoniou (Heraklion, Greece) 4680

16:30  Discussion and Q&A 4681

Studio Milan  Session 403  15:40 - 16:40

Symposium: 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.

15:40  Activity

15:45  Genetics of pulmonary hypertension
Gianluca Chiappa (Barcelona, Spain) 4682

15:54  Gene discovery in pulmonary hypertension
Gianluca Chiappa (Barcelona, Spain) 4682

16:03  Genetic screening in pulmonary hypertension: what is known and what is needed
Gianluca Chiappa (Barcelona, Spain) 4682

16:12  Pulmonary hypertension: a developmental disease
Marta Facchinetti (Rome, Italy) 4683

16:21  Present: basic and clinical research on select developmental lung diseases
Marta Facchinetti (Rome, Italy) 4683

16:30  Discussion and Q&A 4684
**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  4682

15:45  What do we learn from novel genes in pulmonary hypertension?  Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom)  4683

15:55  Should we screen for hereditary pulmonary hypertension?  David Montani (Le Kremlin-Bicêtre, France)  4684

16:05  Does gender matter in pulmonary hypertension?  Anna Ryan Hemnes (Nashville, United States of America)  4685

16:15  Bronchopulmonary dysplasia as a cause of pulmonary hypertension  Elianne J.L.E. Vrijlandt (Groningen, Netherlands)  4686

16:25  Discussion and Q & A  4687

**Studio Paris**  Session 404  **15:40 - 16:40**

**Symposium: 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  4688

15:45  An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics  Herbert Schiller (Munich, Germany)  4689

15:54  The promise of mTOR signaling as a therapeutic target for IPF  Rachel Chambers (London, United Kingdom)  4690

16:03  Itaconate controls the severity of pulmonary fibrosis  Patricia Ogger (London, United Kingdom)  4691

16:12  Versatile workflow for storage, characterization and celltype resolved transcriptional and epigenetic profiling of human lung samples  Renata Jurkowska (Cardiff (Wales), United Kingdom)  4692

16:21  Mitochondrial iron in the susceptibility, pathogenesis and progression of COPD  Suzanne Cloonan (New York City, United States of America)  4693

16:30  Discussion and Q & A  4694

**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 reflection and discussion of these cases.
Channel 1 
Session 406  16:50 - 19:00

Language session: German programme 2020
A joint ERS/DGP/SGP/OGP session
Chairs: Sylvia Hartl (Wien, Austria), Otto Chris Burghuber (Wien, Austria), Thomas Geiser (Bern, Switzerland)

16:50  Introduction
16:55  ICS discontinuation guidelines in COPD
       Daiana Stolz (Basel, Switzerland)
17:13  Severe asthma guidelines: 2019 update
       Roland Buhl (Mainz, Germany)
17:31  Discussion and Q & A
17:46  New guidelines for treatment of nontuberculous mycobacterial pulmonary disease
       Felix C. Ringshausen (Hannover, Germany)
18:04  Guidelines for long-term non-invasive ventilation in patients with COPD
       Wolfram Windisch (Cologne, Germany)
18:22  Management of severe community acquired pneumonia
       Tobias Welte (Hannover, Germany)
18:40  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)

OA4713  Introduction
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 Dahlen, C. Magnus Sköld, Åsa M. Wheelock

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

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 Rønnow, Lasse Langholm, Morten A Karsdal, Tina Manon-Jensen, Ruth Tal-Singer, Bruce E Miller, Jørgen Vestbo, Diana J Leeming

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

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 Alberti, Thomas Fardon, James Chalmers

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

Collagen and elastin turnover increase at COPD exacerbation irrespectively its etiology
Eleni Papakonstantinou (Thessaloniki, Greece), Jannie Sand, Leticia Grize, Hans Hirsch, Michael Tammm, Morten Karsdal, Daiana Stolz

Introduction

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

The use of mTOR inhibitors is associated with improved survival in lung transplant recipients
Yael Lebel-Shostak (Petah-Tikva, Israel), Barak Pertzov, Ori Grossberger, Dror Rosengarten, Dorit Shitenberg, Moshe Heshing, Shai Amor, Mordechai Kramer

Real life experience in mTOR-inhibitors after lung transplantation
Saskia Bos (Lovenjoel, Belgium), Lauren's De Sadeler, Birt Vanadendaerde, Jonas Yserbyt, Lieven Dupont, Laurent Godinas, Geert Verleden, Robin Vos

Intra-alveolar neutrophil-derived microvesicles predict development of primary graft dysfunction after lung transplantation.
Sanoj Soni (London, United Kingdom), Rosalba Romano, Kieran O'Dea, Brijesh Patel, Kate Tatham, Marissa Koh, Diianeira Tsiridou, Andre Simon, Louit Thakuria, Michael Wilson, Anna Reed, Nandor Marczin, 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-Atoual
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

Discussion

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 Physioloogy Cell and molecular biology General respiratory patient care
Chairs: Ludger Grote (Göteborg, Sweden), Sophia E. Schiza (Heraklion, Greece)

Intranasal leptin prevents opioid-induced respiratory depression
Vsevolod Y. Polotsky (Baltimore, United States of America), Carla Freire, Huy Pho, Lenise Kim, Xin Wang, Khansi Dyavanapalli, Stone Streeter, Thamaz Fleury-Curado, David Mendelowitz

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 Benjfield, John Stradling

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

Effect of CPAP and mandibular advancement devices on cardiac biomarkers in patients with obstructive sleep apnea
Iana Andreieva (Zaporizhia, Ukraine)

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 Grillot, Bruno Stach, Jean-François Muir, Hervé Pegliasco, Jean-Louis Pepin

Effect of CPAP treatment on adhesion molecules in coronary artery disease with nonsleepy obstructive sleep apnoea: The RICADSA randomised controlled trial
Ding Zou (Göteborg, Sweden), Yeliz Celik, Tulay Lindberg, Erik Thunström, Yuksel Peker

Discussion
Introduction

Effects of Ground-Based Walking Training in Pulmonary Hypertension
Özge Ertan (İstanbul, Turkey), Gokser Kuran Aslan, Buket Akinci, Gulfer Okumus

Sniff nasal inspiratory pressure as a predictor of 1-year mortality after exacerbation of COPD
Tsuyoshi Ichikawa (Isehara, Kanagawa, Japan), Sakurako Tajiri, Masanori Yokoba, Yu Horimizu, Saki Yamaguchi, Akiko Kawakami, Masahiko Kimura, Tsutsuri Kondo, Masato Katagiri, Minoru Toyokura

Oxygen consumption (V\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 H. 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 Blancquaert, 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

Discussion

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)

16:50 Introduction

16:55 Targeting the lung epithelium: does age matter?
Paul Wolters (San Francisco, United States of America)

17:05 Senescence and immune ageing
Mauricio Rojas (Pittsburgh, United States of America)

17:15 Cellular senescence in regeneration and diseases of the lung
Mareike Lehmann (München, Germany)

17:25 The inflammatory niche of the aged lung
Louise Donnelly (London, United Kingdom)

17:35 Discussion and Q&A

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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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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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
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)

16:50 Introduction

16:55 Diagnosis and management of community acquired pneumonia in adults
Tobias Welte (Hannover, Germany)

17:15 Discussion and Q & A

17:20 Chronic refractory cough
Imran Satia (Hamilton (ON), Canada)

17:40 Discussion and Q & A

17:45 Non-tuberculous mycobacteria
Rodrigo Andres Floto (Cambridge (Cambridgeshire), United Kingdom)

18:05 Discussion and Q & A

18:10 Fitness for radical therapy in lung cancer patients
Ales Rozman (Golnik, Slovenia)

18:30 Discussion and Q & A

18:35 Acute pulmonary embolism
David Jiménez Castro (Madrid, Spain)

18:55 Discussion and Q & A

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

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

Chairs: Lena Uller (Lund, Sweden), Ian M. Adcock (London, United Kingdom)

OA4780 Introduction

OA4781 Inhaled corticosteroid (ICS) induced metabolome changes in asthmatics.
Peter Daley-Yates (Uxbridge, United Kingdom), Brian Keppler, Noushin Brealey, Shaila Shabbir, Dave Singh, Neil Barnes

OA4782 Azithromycin prevents airway epithelial barrier dysfunction induced by sulphur dioxide inhalation
Sævar Ingthorsson (Reykjavik, Iceland), Jennifer Kricker, Thorarinn Gudjonsson, Ari Jon Arason, Jon Pétur Joelsson, Bryndis Valdimarsdottir, Fridrik Runar Gardarsson, Clive Page, Fredrik Lehmann

OA4783 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

OA4784 PBF-680, an oral A1 adenosine receptor antagonist, inhibits the late allergic response (LAR) in mild-to-moderate atopic asthmatics: a Phase-IIa trial
David Ramos-Barbon (Barcelona, Spain), Nadia S. Brienza, Teresa Bigorra Rodriguez, Éder Fredy Mateus Medina, Ignasi Gich Saladich, Montserrat Puntes Rodriguez, Rosa M. Antonijoan Arbos, Santiago Quirce Gancedo, Nahomi Castro Palomino Laria, Julio Castro Palomino Laria

OA4785 PGE2 and PG12 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

OA4786 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
**OA4787**  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)

**OA4788**  Introduction

**OA4789**  Clinically-relevant tracheostomy prediction model in neonatal bronchopulmonary dysplasia via respiratory MRI

Nara Higano (Cincinnati, United States of America), Stephanie Adaiakalam, Erik Hysinger, Alister Bates, Robert Fleck, Andrew Schapiro, Melissa House, Amy Nathan, Shawn Ahlfield, Jennifer Brady, Andrew Hahn, Sean Fain, Paul Kingma, Jason Woods

**OA4790**  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

**OA4791**  Early risk stratification in preterm infants with Bronchopulmonary Dysplasia via pulmonary arterial flow measurements in MRI

Friederike Häfner (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 Hilgendorff

**OA4792**  Comparison of oxygen-haemoglobin dissociation curves (ODC) and 99mTc-macroaggregated-albumin lung scans (M AA) in the diagnosis of Hepatopulmonary Syndrome (HPS) in children

Emma Russell-Jones (London, United Kingdom), Theodore Dassios, Tassos Grammatikopoulos

**OA4793**  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 Vollætter, Thomas Halvorsen, Ola Drange Rokmund, Hege Clemm

**OA4794**  Physiological deadspace in ventilated infants with differing lung pathologies

Emma Williams (London, United Kingdom), Theodore Dassios, Anne Greenough

**OA4795**  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

**OA4796**  Discussion

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**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)

**OA4797**  Introduction

**OA4798**  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

**OA4799**  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

**OA4800**  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
OA 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-Messink

OA 4802 Use of Machine learning to predict asthma exacerbations
Christiern Janson (Uppsala, Sweden), Gunnar Johansson, Kjell Larsson, Björn Ställberg, Mario Mueller, Mateusz Luczko, Bine Kjoeller Bjerregaard, Stuart Fell, Gerald Bacher, Bjorn Holzhauer, Pankaj Goyal, Karin Lisspers

OA 4803 Cognitive intelligence support in the detection of COPD
Federico Piffer (Trento (TN), Italy), Romano Nardelli, Filippo Nardelli

OA 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

OA 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

OA 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

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

Chairs : Sundeep Santosh Salvi (Pune (Maharashtra), India), Nicolas Kahn (Heidelberg, Germany)

OA 4807 Introduction

OA 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

OA 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, Giulia Scioscia, Girolamo Pelaia, Maria Pia Foschino Barbaro

OA 4810 Management-related costs of Idiopathic Pulmonary Fibrosis (IPF) in Belgium
Danielle Stevens (Grimbergen, Belgium), Benjamin Bondue, Caroline Dahlqvist, Hans Slabbynk, Julien Guiot, Guy F. Joos, Natacha Gusbain, Wim Janissens, Antoine Froidure, Wim Wuysts

OA 4811 Cost-IPFfectiveness of antifibrotic treatment: real-life data from a Greek University Hospital
Ilias Dimeas (Larissa, Greece), Sotirios Sinis, Paraskevi Krigou, Lampropoulos Ioannis, Foteini Malli, Konstantinos Gourgoulianis, Zoe Daniil

OA 4812 Home vs inpatient CPAP titration costs in OSA patients from Southern Italy: the role of telemedicine.
Valentina Di Leccce (Modugno (BA), Italy), Roberto Sabato, Onofrio Resta, Giovanna Elisiana Carpagnano, Andrea Portacci, Pasquale Tondo, Donato Lacedonia, Maria Pia Foschino Barbaro

OA 4813 Investigating the Respiratory therapist perception of committed medical incidents in Intensive care unit (ICU)
Abdullah AlQahtani (Nottingham, United Kingdom)

OA 4814 Estimating the Cost of Pulmonary Embolism in Greece with the help of large data
Ilias Dimeas (Larissa, Greece), Ioannis Lampropoulos, Dimitrios Rapits, Foteini Malli, Eleftherios Aggelopoulos, Zoe Daniil, Konstantinos Gourgoulianis

OA 4815 Publication rate and characteristics of industry-sponsored asthma clinical trials
Pravin Bolsheite (Airoli, India), Snehal Kanolkar, Ruchika Thale, Madhulika Bolsheite, Vaibhavi Jakhetia

OA 4816 The cost of treatment of tuberculosis in children of Belarus
Larissa Gorbach (Minsk, Belarus)

OA 4817 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

OA 4818 Discussion
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)
### 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>18:00</td>
<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 Konigshoff (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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<td>18:45</td>
<td>Discussion and Q &amp; A</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
### Channel 1  
**Session 436**  
**09:30 - 10:30**  

**Language session: French programme 2020: Part II**  
A joint ERS/SPLF session  

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<td>09:30</td>
<td>Introduction</td>
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<td>4903</td>
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<td>09:35</td>
<td>Diagnostic de l’EP chez la femme enceinte / Diagnosis of pulmonary embolism in pregnant women</td>
<td>Florence Parent (Clamart, France)</td>
<td>4904</td>
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<td>09:45</td>
<td>Place des anti-IL5 dans les pathologies éosinophiliques (hors asthme sévère) / Anti-IL-5 therapy for indications other than severe asthma</td>
<td>Philippe Bonniaud (Dijon, France)</td>
<td>4905</td>
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<td>09:55</td>
<td>Risques cardiovasculaires et BPCO / Cardiovascular risks and COPD</td>
<td>Bruno Degano (grenoble, France)</td>
<td>4906</td>
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<td>10:05</td>
<td>Exploration de la fonction respiratoire selon l’âge / Lung function testing and age</td>
<td>Sonia Rouatbi (Sousse, Tunisia)</td>
<td>4907</td>
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<td>10:15</td>
<td>Discussion and Q &amp; A</td>
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### Channel 2  
**Session 437**  
**09:30 - 10:30**  

**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  

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<th>Title</th>
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<td><strong>OA4909</strong> Introduction</td>
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<td><strong>OA4910</strong> The long-term clinical and economic impact of COPD exacerbations: an observational study (SHERLOCK)</td>
<td>John Haughney (Glasgow, United Kingdom), Amanda J Lee, Mintu Nath, Hana Müllerová, Ulf Holmgren, Enrico De Nigris, Bo Ding</td>
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<tr>
<td><strong>OA4911</strong> Prediction model of COPD acute exacerbation with big data by machine learning methods</td>
<td>Chin Kook Rhee (Seoul, Republic of Korea), Jin Woo Kim, Kwang Ha Yoo, Ki-Suck Jung</td>
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<td><strong>OA4912</strong> Automated computed tomography lung densitometry in bronchiectasis patients</td>
<td>Rodrigo Abensur Athanazio (São Paulo (SP), Brazil), Marcio Yamada Sawamura, Maria Cecilia Nieves Teixeira Maiorano De Nucci, Samia Zahia Rachid, Alberto Cukier, Regina Maria Cavalho-Pinto, Rafael Stelmach, Antonildes Nascimento Assunção Junior, Marcelo Straus Takahashi, Cesar Higa Nomura</td>
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<td><strong>OA4913</strong> CT evaluations of erector spinae muscle, emphysema, and airway disease for predicting mortality in COPD</td>
<td>Naoya Tanabe (Kyoto, Japan), Susumu Sato, Kazuya Tanimura, Hiroshi Shima, Tsuyoshi Oguma, Atsuyasu Sato, Shigeo Muro, Toyo Hiro Hirai</td>
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<td><strong>OA4914</strong> Validation of clinical clusters for long-term mortality in two European COPD cohorts</td>
<td>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 Malinovski</td>
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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)


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 Bonnelykke (Allerød, Denmark)

OA4918 Introduction

A genome-wide association study of asthma-COPD overlap syndrome (ACOS)
Catherine John (Leicester, United Kingdom), Anna L Guyatt, Nick Shrine, Thorunn Olafsdottir, Jiangyuan Liu, Lystra Hayden, Su H Chiu, Jukka Koskela, Juan An Luan, Xingnan Li, Natalie Terzikhan, Hanfei Xu, Traci M Bartz, Hans Petersen, Shuguang Leng, Guudmar Thorleifsson, Deborah A Meyers, Eugene R Bleeker, Lori C Sakoda, Carlos Irizarren, Yohannes Tesfai, Gina A Gharib, Josee Dupuis, Lies Lohausse, Victor E Ortega, Kari Stefansson, Ian P Hall, Claudia Langenberg, Samuli Ripatti, Tarja Laitinen, Ann C Wu, Jessica Lasky–Su, Caroline Hayward, Ben Brumpton, Arnulf Langhammer, Ingileif Jonsdottir, Michael H Cho, Louise V Wain, Martin D Tobin

OA4920 Bronchial airway inducible expression and methylation QTL mapping identifies a single nucleotide polymorphism predicting inhaled corticosteroids response heterogeneity
Elise M.A. Slob (Amsterdam, Netherlands), Alen Faiz, Susanne Vijverberg, Cristina Longo, Merve Kutlu, Patricia Soares, Fook Tim Chew, Esther Herrera-Luis, Antonio Espuela Ortiz, Maria Del Pino Yanes, Esteban Burchard, Uroš Potocnik, Colin Palmer, Cyrielle Maroteau, Steve Turner, Katia Verhamme, Leila Karimi, Somnath Mukhopadhyay, Wim Timens, Pieter Hiemstra, Marie-Pielen, Maarten Van Den Berge, Anke-Hilse Maitland-Van Der Zee, Gerard Koppelman

OA4921 Interaction between VGDF exposure and antioxidant genes on COPD in UK Biobank
Diana van der Plaat (London, United Kingdom), Sara De Matteis, Steven Sadhra, Debbie Jarvis, Paul Cullinan, Cosetta Minelli

OA4922 Identification and characterisation of twenty-two novel SERPINA1 pathological mutations
Stefania Ottaviani (Pavia (PV), Italy), Anna Maria Fra, Alice Maria Balderacchi, Valentina Barzon, Tomas Patrick Carroll, Davide Pilloni, Francesca Mariani, Noel Gerard Mc Elvaney, Angelo Guido Corsico, Ilaria Ferrarotti

OA4923 Activation of toxicology-related genes in human airway constructs after exposure to indoor air particulate matter from moisture-damaged houses
Maria-Elsa Nordberg (Kuopio, Finland), Martin Täubel, Hanna Leppänen, Anne Hyvärinen, Kati Huttunen

OA4924 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

OA4925 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 Teddei

Late Breaking Abstract - Experimental Respiratory Syncytial Virus infection in adults 60-75 years
Alex Mann (London, United Kingdom), Mariya Kalinova, Andrew Catchepole, 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 Héméquin, Cendrine Godet, Aleksandra Barac, Holger Flick, Oxana Munteanu, Christian B. Laursen, Jesper Romhild 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 Pavord, Paul Kleerman, 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 characterizes frequent COPD exacerbators
Pei Yee Tiew (Singapore, Singapore), Alison Dicker, Holly R Keir, Mau Ern Poh, Sze Lei Pang, Sri Anusha Matta, Branden Qi Yu Chua, Huiying Xu, Mariko Syiue 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), Michele Mac Aogain, Kenny Lau Jia Xu, Zhao Cai, Rickky Purbojati, Daniela drautz-Moses, Nicolas Gaultier, Pavleen Jaggi, Pei Yee Tiew, Thun How Ong, Mariko Syiue Koh, Albert Yick Hou Lim, John Arputhan Abisheganaden, Krasimira Tsaneva-Atanasova, Stephan Schuster, Sanjay Haresh 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, Xiaoqing Cui, Xiaohui Zou, Bin Cao

Discussion

Studio 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 4937

09:35 ERS: structure, activities, opportunities: view of the Early Career Members Committee (ECMC)
Maxime Patout (Mont-Saint Aignan, France) 4938

09:45 ERS fellowship: an overview
Louise Donnelly (London, United Kingdom) 4939

09:55 Mina Gaga lecture
Chris Burtin (Diepenbeek, Belgium) 4940

10:05 Motivation and leadership in science
Daniela Gompelmann (Heidelberg, Germany) 4941
Studio Milan  
Session 441  
09:30 - 10:30

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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09:30  
**Introduction**

09:35  
Implementation of lung cancer screening in Europe: the way forward
Emma O’Dowd (Nottingham, United Kingdom)

09:44  
Perioperative systemic therapy in resectable lung cancer: from standard operating procedures to immuno-oncology and back
Isabelle Opitz (Zurich, Switzerland)

09:53  
Radiotherapy in small cell lung cancer: patient options
Corrine Faivre Finn (Manchester (Greater Manchester), United Kingdom)

10:02  
Update on supportive care
Dragana M. Jovanović (Beograd, Republic of Serbia)

10:11  
Thoracic Cancers International COVID-19 Collaboration (TERAVOLT): Impact of type of cancer therapy and COVID therapy on survival
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

10:20  
Discussion and Q & A

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Studio Paris  
Session 442  
09:30 - 10:30

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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09:30  
**Introduction**

09:35  
AI for respiratory signals
Tom Van Steenkiste (Ghent, Belgium)

09:45  
Health patches for wearable respiration monitoring
Bernard Grundlehner (Eindhoven, Netherlands)

09:55  
Respiration monitoring in COPD patients
Dolores Blanco-Almazán (Barcelona, Spain)

10:05  
Surveillance of COVID-19 with a radar app
Niels H. Chavannes (Leiden, Netherlands)

10:15  
Discussion and Q & A
Studio Vienna

Session 443

09:30 - 11:40

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

Session 444

10:40 - 11:40

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 transbronghial 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
Speaker to be confirmed

10:55  Will artificial intelligence replace biopsy?
Speaker to be confirmed

11:05  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

Session 445

10:40 - 11:40

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)

**OA4971** Introduction

**OA4972** Machine learning algorithm for the diagnosis of pulmonary embolism: a proof of concept study

Konstantinos Exarchos (Ioannina, Greece), Agapi Aggelopoulou, Konstantinos Bartzios, Elpida Tsina, Christos Tagkas, Vasileios Drouvis, Olga Toli, Konstantinos Kostikas

**OA4973** Outcome of patients with acute symptomatic pulmonary embolism and psychiatric disorders


**OA4974** Changes in sleep-disordered breathing from the acute to the stable phase of pulmonary embolism and impact of right ventricular dysfunction: preliminary findings of ESAET study

Alberto García Ortega (Valencia, Spain), Grace Oscullo, Eva Mañas-Baena, Aldara García-Sanchez, Raquel Lopez-Reyes, Juan Jose Jimenez-Aguilera, Pilar Calvillo, Jose Daniel Gomez-Olivas, Silvia Navarro-Rosales, Maria Jose Selma-Ferrer, Enrique Zaldívar-Ólmeda, Cristina Navarro-Soriano, David Jimenez-Castro, Miguel Ángel Martínez-García

**OA4975** Is there an Optimal Door-to-Treatment Time for Acute Pulmonary Embolism? A National Propensity Match Analysis

Kam S Ho (New York, United States of America), Paaras Kohli, Archana Pattupara, Yasmin Herrera, Joseph Poon, Shabnam Nasserifar, Andre Sotelo, Raymonde Jean

**OA4976** Retrospective application of the YEARS algorithm to an ambulatory PE clinic cohort

Sameen Toor (Leicester, United Kingdom), Hamish Mcauley, Ruth Spriggs, Elaine Bailie, Nisha Parmar, Neil Greening

**OA4977** Direct oral anticoagulants and low-molecular weight heparin for primary prevention of venous thromboembolism in cancer patients: a meta-analysis

Anna Francesca Mulles (QUEZON CITY, Philippines), Amraphel Nicolas, Harold Henrison Chiu, Ralph Elvi Villalobos


Charles Ortone (Brest, France), Francis Coutraud, Cécile Tromeur, Pierre-Yves Le Floch, Pierre-Yves Salaun, Christophe Leroyer

**OA4979** Discussion

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**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)

**OA4980** Introduction

**OA4981** Pollen exposure in pregnancy and infancy and risk of childhood asthma

Cecilia Lundholm (Stockholm, Sweden), Catarina Almqvist, Sara Ekberg, Fang Fang, Tove Fall, Åslög Dahl

**OA4982** Early-life exposure to air pollution and lung function development into adolescence: the GINIplus/LISA birth cohorts

Qi ZHAO (Düsseldorf, Germany), Qi ZHAO, Iana Markeych, Dietrich Berdel, Andrea Berg, Monika Gappa, Sibylle Koletzko, Carl-Peter Bauer, Holger Schulz, Marie Standl, Joachim Heinrich, Tamara Schikowski

**OA4983** Impaired infant lung function in relation to air pollution exposure

Björn Lundberg (Stockholm, Sweden), Olena Gruzieva, Kristina Eneroth, Erik Melén, Tomas Lind, Göran Pershagen, Jenny Hallberg

**OA4984** Pro-inflammatory and low quality maternal diet in pregnancy and the risk of childhood lower lung function and asthma: a meta-analysis of 18,000 children

**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 (Silingen, Germany), Maria Bonsignore (Palermo, Italy)

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**OA4989** Introduction

**OA4990** 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. Bhatawadekar, Shumit Saha, Susan M. Tarlo, Matthew Stanbrook, Mark Inman, Azadeh Yadollahi

**OA4991** Is obstructive sleep apnea a risk factor for the progression of thoracic aortic aneurysm? A prospective cohort study
Thomas Gaisl (Zürich, Switzerland), Rejmer Protazy, Maurice Roeder, Patrick Baumgartner, Noriane Sievi, Sandra Siegfried, Simon Stämpfli, Felix Tanner, Malcolm Kohler

**OA4992** 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, Nourwah Hassan Abd Elwahab

**OA4993** Effect of obstructive sleep apnoea on cardiovascular outcomes in patients with acute coronary syndrome: a secondary analysis of the RIC CADS A trial
Yuksel Peker (Istanbul, Turkey), Erik Thunström, Helena Glantz, Christine Eulenburg

**OA4994** 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

**OA4995** 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

**OA4996** 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 Lukda, Johan Verbraecken, Athanasia Patakia, Stefan Mihaiacuta, Pawel Sliwinski, Tarja Saarestranta, Marisa Bonsignore, Ding Zou, Jan Hedner

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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**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
<th>Duration</th>
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<tbody>
<tr>
<td>10:45</td>
<td>Selection of ILD patients for ICU and ECMO</td>
<td>Cara Agerstrand (New York, United States of America)</td>
<td>Studio Milan</td>
<td>10:45 - 10:55</td>
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<tr>
<td>11:05</td>
<td>Diagnostic procedures in ICU: bronchoscopy and BAL or tissue?</td>
<td>Claudia Ravaglia (Forlì, Italy)</td>
<td>Studio Milan</td>
<td>11:05 - 11:15</td>
</tr>
<tr>
<td>11:15</td>
<td>Management of ILD patients in ICU</td>
<td>Maria Kokosi (London, United Kingdom)</td>
<td>Studio Milan</td>
<td>11:15 - 11:25</td>
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<tr>
<td>11:25</td>
<td>Discussion and Q &amp; A</td>
<td></td>
<td>Studio Milan</td>
<td>11:25 - 11:50</td>
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**Live from the clinic: Physiology**

Body plethysmography and spirometry

**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)

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<th>Time</th>
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<th>Speaker(s)</th>
<th>Location</th>
<th>Duration</th>
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<tbody>
<tr>
<td>10:40</td>
<td>Introduction to body plethysmography + case description</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)</td>
<td>Studio Milan</td>
<td>10:40 - 10:50</td>
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<tr>
<td>10:50</td>
<td>Live case - Obstructive</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
<td>Studio Milan</td>
<td>10:50 - 10:55</td>
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<tr>
<td>11:05</td>
<td>Discussion and Q/A</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)</td>
<td>Studio Milan</td>
<td>11:05 - 11:15</td>
</tr>
<tr>
<td>11:15</td>
<td>Introduction to spirometry + case description</td>
<td>Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)</td>
<td>Studio Milan</td>
<td>11:15 - 11:25</td>
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<tr>
<td>11:25</td>
<td>Live case - Obstructive</td>
<td>Jean-Martin Wiederseiner (Basel, Switzerland)</td>
<td>Studio Milan</td>
<td>11:25 - 11:30</td>
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<td>11:40</td>
<td>Discussion and Q &amp; A</td>
<td>Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)</td>
<td>Studio Milan</td>
<td>11:40 - 11:45</td>
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<td>12:10</td>
<td>Discussion &amp; Q/A</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)</td>
<td>Studio Milan</td>
<td>12:10 - 12:15</td>
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<tr>
<td>12:20</td>
<td>Spiroergometry - Case description</td>
<td>Jean-Paul Wiederseiner (Basel, Switzerland)</td>
<td>Studio Milan</td>
<td>12:20 - 12:25</td>
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<tr>
<td>12:25</td>
<td>Live case - Restrictive</td>
<td>Jean-Martin Wiederseiner (Basel, Switzerland)</td>
<td>Studio Milan</td>
<td>12:25 - 12:30</td>
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<tr>
<td>12:40</td>
<td>Discussion &amp; Q/A</td>
<td>Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)</td>
<td>Studio Milan</td>
<td>12:40 - 12:45</td>
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</tbody>
</table>
Joint session: Inhalers for COPD and Asthma: reviews
A joint ERS/Industry session
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)

10:40 Introduction

10:45 How to select an inhaler?
Omar S. Usmani (London, United Kingdom)

10:55 How to monitor and improve inhaler technique?
Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)

11:05 How to assess and improve inhaler adherence
David Price (Singapore, Singapore)

11:15 Discussion and Q&A

Channel 1

Joint session: Skills training and assessment in pulmonary medicine and surgery
A joint ERS/ESTS session
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)

11:50 Introduction

11:55 How and why should we train for thoracic ultrasound?
Christian B. Laursen (Odense, Denmark)

12:05 Which criteria indicate competence for endobronchial ultrasound?
Laurence M.M.J. Crombag (Amsterdam, Netherlands)

12:15 Skills curriculum for VATS lobectomy and segmentectomy
René Horsleben Petersen (Copenhagen, Denmark)

12:25 Ideal content and evaluation of a trainee’s logbook
Speaker to be confirmed

12:35 Discussion and Q&A

Channel 2

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)

OA 5027 Introduction

OA 5028 Late Breaking Abstract - 3D culturing mesenchymal stem cells in lung extracellular matrix hydrogels affects their homing potential
Jorge Otero (Barcelona, Spain), Bryan Falcones, Hector Sanz, Esther Marhuenda, Irene Mendizabal, Ignacio Cabrera, Isaac Almendros, Daniel Navajas, Ramon Farre

OA 5029 RANKL contributes to lung tissue repair via promoting type II epithelial cell proliferation
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
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 (Molenend, Netherlands), Andriana Papaioannou (Vrilissia (Athens), Greece)

OA5037 Introduction

OA5038 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

OA5039 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

OA5040 Combined assessment of serum eosinophil-derived neurotoxin and YKL-40 may identify asthma-COPD overlap

Keita Hirai (Shizuka, Japan), Toshihiro Shirai, Yasuhiro Gon, Shuichiro Maruoka, Kenji Mizumura, Mari Hikichi, Kunihiko Itoh, Shu Hashimoto

OA5041 Real world residual disease manifestations after 2-years anti-IL-5 treatment for severe asthma

Katrien A.B. Eger (s-Gravenhage, Netherlands), Johannes A. Kroeze, Anneke Ten Brinke, Jacob K. Sont, Elisabeth H. Bel

OA5042 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, Sangtaek Lim, Randall Brown, Susan Colilla

OA5043 Histopathological comparison of endobronchial biopsies from different pulmonary lobes of severe asthmatic patients

Nuria Toledo Pons (Palma De Mallorca, Spain), Job Fm Van Boven, Josep Muncunill Farreny, Aina Millan Pons, Miguel Román Rodriguez, Bernardo López Andrade, Janwillem Wh Kocks, Borja García-Cosío Piqueras

OA5044 Impact of the eosinophil variability on severe exacerbations in an asthmatic population

Elena Papakonstantinou, Spasenija Savic, Kathleen Jahn, Michael Tamm, Daiana Stolz

OA5045 Discussion
**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)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:50</td>
<td>Introduction</td>
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<tr>
<td>11:55</td>
<td>An extremely rare case of malignant clear Cell &quot;Sugar&quot; tumor of the lung</td>
<td>Marie Drösslerová (Opava, Czech Republic)</td>
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<tr>
<td>12:01</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:06</td>
<td>An unusual case of lung consolidations, lymph adenopathies and pericardial mass</td>
<td>Federico Mei (Ancona (AN), Italy)</td>
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<tr>
<td>12:12</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:17</td>
<td>Solely an eosinophilic pneumonia or something more?</td>
<td>Gil Gonçalves (Lousada, Portugal)</td>
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<tr>
<td>12:23</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:28</td>
<td>Unusual cause of hydropneumothorax</td>
<td>Eserval Rocha Junior (Sao Paulo, Brazil)</td>
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<tr>
<td>12:34</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>12:39</td>
<td>Slow-growing pulmonary nodules</td>
<td>Caroliny Samary Silva Lobato (Rio De Janeiro (RJ), Brazil)</td>
</tr>
<tr>
<td>12:45</td>
<td>Discussion and Q &amp; A</td>
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**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:50</td>
<td>Introduction</td>
<td></td>
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<tr>
<td>11:55</td>
<td>Chronic Hypersensitivity pneumonitis: risks factors and therapeutic options</td>
<td>Athol Wells (London, United Kingdom)</td>
</tr>
<tr>
<td>12:05</td>
<td>Genetics in ILDs: what does the future hold?</td>
<td>Maria Molina Molina (Barcelona, Spain)</td>
</tr>
<tr>
<td>12:15</td>
<td>Invasive approaches in the diagnosis of ILDs</td>
<td>Claudia Ravaglia (Forli, Italy)</td>
</tr>
</tbody>
</table>
### 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)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:50</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>11:55</td>
<td>Let's start with the end-user, patients and digital: will they work together?</td>
<td>Dominique Hamerlijnck (Amsterdam, Netherlands)</td>
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<tr>
<td>12:00</td>
<td>Combining digital technologies to monitor asthma control and predict asthma exacerbations</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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<tr>
<td>12:10</td>
<td>New horizons in digital technologies for respiratory medicine</td>
<td>Vitalii Poberezhets (Vinnytsia, Ukraine)</td>
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<tr>
<td>12:20</td>
<td>Designs of future digital trials and the promise of artificial intelligence</td>
<td>Konstantinos Kostikas (Ioannina, Greece)</td>
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<tr>
<td>12:30</td>
<td>Connected health and eHealth literacy</td>
<td>Lars Kayser (Copenhagen, Denmark)</td>
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<tr>
<td>12:40</td>
<td>Discussion and Q &amp; A</td>
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### 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 reflection 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)

<table>
<thead>
<tr>
<th>Case 1 - Author: Edith Marije van den Beukel (Netherlands)</th>
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<tr>
<td><strong>Discussion and Q &amp; A</strong></td>
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<tr>
<th>Case 2 - Author: Anna-Louise Nichols (United Kingdom)</th>
<th>5072</th>
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<tbody>
<tr>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>5073</td>
</tr>
</tbody>
</table>
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)

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

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.

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)

15:15  Discussion and Q & A
**Channel 2**  
**Session 465**  
**Oral presentation: Ageing, metabolic syndrome and the lung**  
Abstracts presented in this session are also available as E-posters from 24 August 2020  
**Disease(s):** Airway diseases, Sleep and breathing disorders  
**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)

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
<th>Summary</th>
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<tbody>
<tr>
<td>OA5111</td>
<td><strong>Introduction</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>Late Breaking Abstract - Tackling the diagnostic challenge of COVID-19 - beyond a ‘false-negative’?</strong></td>
<td>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</td>
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<tr>
<td>OA5112</td>
<td><strong>Unrevealed Structural, Functional and Immunological Pulmonary Changes Induced by Metabolic Syndrome in Elderly</strong></td>
<td>Maysa A. R. Brandao-Rangel (Sao Jose Dos Campos (SP), Brazil), Renilson M Ferreira, Luis Vicente F Oliveira, Claudio R Frison, Rodolfo P Vieira</td>
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</tr>
<tr>
<td>OA5113</td>
<td><strong>Prognostic nutritional index (PNI): A predictive factor for elderly patients with COPD</strong></td>
<td>EIKO SUZUKI (Chiba, Japan), Naoko Kawata, Jun Ikari, Rie Anazawa, Masaki Suzuki, Ayako Shimada, Koichiro Tatsumi</td>
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<tr>
<td>OA5114</td>
<td><strong>Determination of the phenotypic age of the residents of Mexico City. Effect of accelerated aging on lung function and structure</strong></td>
<td>Ivette Buendia Roldán (México D.F, Mexico), Rosario Fernandez-Plata, Annie Pardo, Moises Selman</td>
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<tr>
<td>OA5115</td>
<td><strong>Underappreciation of coronary artery disease in patients with COPD</strong></td>
<td>Christoph Beyer (Innsbruck, Austria), Alex Pizzini, Anna Boehm, Judith Loeffler-Ragg, Guenter Weiss, Gudrun Feuchtner, Axel Bauer, Guy Friedrich, Fabian Plank</td>
<td></td>
</tr>
<tr>
<td>OA5116</td>
<td><strong>Serum lysophosphatidic acid levels and exacerbation frequency in chronic obstructive pulmonary disease (COPD)</strong></td>
<td>Wei Tew (South San Francisco, United States of America), Qingli Li, Andrew Birnberg, Arindam Chakrabarti, David Choy, Erik Verschueren, Margaret Neighbors, Wendy Sandoval, Carrie Rosenberger, Michele Grimaldston</td>
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<tr>
<td>OA5117</td>
<td><strong>COPD as a risk factor for carotid artery disease (CAD) and low-extremity artery disease (LEAD)</strong></td>
<td>Daniela Bukloska Ilievskva (Skopje, North Macedonia), Jordan Minov, Nade Kochovska Kamchevska, Marjan Baloski, Bozidar Poposki</td>
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<tr>
<td>OA5118</td>
<td><strong>Discussion</strong></td>
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**Channel 3**  
**Session 466**  
**Oral presentation: Novelties in interventional pulmonology: expanding horizons**  
Abstracts presented in this session are also available as E-posters from 24 August 2020  
**Disease(s):** Thoracic oncology, Airway diseases  
**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)

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<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
<th>Summary</th>
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<tr>
<td>OA5120</td>
<td><strong>Introduction</strong></td>
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<tr>
<td></td>
<td><strong>Endosonography for left adrenal gland assessment in lung cancer patients - 10 years experience</strong></td>
<td>Maciej Gnass (Myślenice, Poland), Stanisław Orzechowski, Joanna Sola, Monika Lis, Monika Skrobot, Pawel Gwóźdź, Anna Filarecka, Jerzy Soja, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski</td>
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<tr>
<td>OA5121</td>
<td><strong>Concordance between pulmonologist performed rapid on-site evaluation (ROSE) and pathological diagnosis in EBUS-TBNA samples</strong></td>
<td>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</td>
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<tr>
<td>OA5122</td>
<td><strong>Liquid biopsy in patients with adenocarcinoma - comparison between bronchoalveolar lavage (BAL) and blood samples</strong></td>
<td>Nikolay Yanev (Sofia, Bulgaria), Evgeni Mekov, Stoyan Bichev, Alexey Savov, Dimitar Kostadinov</td>
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<tr>
<td>OA5123</td>
<td><strong>Intratumoral Hyperthermic Chemotherapy Injection in Peripheral Non-Small Cell Lung Cancer; a Pilot Study.</strong></td>
<td>Asem Hewidy (Mansoura, Egypt), Mohamed Tohlob, Lucy Suliman, Ahmed Elmosry, Mohamed Ibrahim</td>
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<tr>
<td>OA5124</td>
<td><strong>Discussion</strong></td>
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### 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)

**14:30**  
**Introduction**
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
<th>Reference</th>
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<tbody>
<tr>
<td>14:35</td>
<td>How to stratify the risk of failure of noninvasive respiratory assistance</td>
<td>Begüm Ergan (Izmir, Turkey)</td>
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<tr>
<td>14:45</td>
<td>Indications and pitfalls of high-flow nasal cannula (HFNC) outside the intensive care unit</td>
<td>Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)</td>
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<td>5142</td>
</tr>
<tr>
<td>14:55</td>
<td>Remote monitoring devices: one more point for noninvasive assistance in the wards</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<td>15:05</td>
<td>Noninvasive respiratory assistance in respiratory high dependency units: a bargain for high risk patients?</td>
<td>Lara Pisani (Bologna (BO), Italy)</td>
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<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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**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>
<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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<tr>
<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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<tr>
<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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<tr>
<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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<tr>
<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), Tobias Welte (Hannover, Germany)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<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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<tr>
<td>14:45</td>
<td>The lung microbiome and its effects on respiratory infections</td>
<td>Leopoldo N. Segal (New York News York, NY, United States of America)</td>
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<td>5154</td>
</tr>
</tbody>
</table>
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 No
René Horsleben Petersen (Copenhagen, Denmark)

15:13 Yes
Gulia Veronesi (Milan, Italy)

15:23 Discussion
OA5167 Introduction

OA5168 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

OA5169 Treatment adherence among adults with asthma- A report from the OLIN asthma cohort
Sofia Winsa Lindmark (Luleå, Sweden), Ludvig Sandström, Johanna Selberg, Linnea Hedman, Helena Backman, Eva Rönmark, Caroline Stridsman

OA5170 Study to E valuate 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

OA5171 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 Nadim, Gitte Jørgensen, Lars B Nielsen, Michael K Sørensen, Caroline Heerema, Ingrid L Titestad, Annamarie T Lassen, Søren Mikkelsen

OA5172 E care-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

OA5173 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

OA5174 An exploration of dyspnoea and determinants in patients with COPD
Ellen Margareth Neherm (Nittedal, Norway), Gunnar Einvik, Vivi Lycke Christensen, Anne Edvardsen

OA5175 Discussion

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 disease
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)

OA5176 Introduction

OA5177 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 Dekhuizen, Michel Van Den Heuvel

OA5178 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

OA5179 Efficiency of home-based pulmonary rehabilitation in adults with asthma
Ayşe Sena Manzak (istanbul, Turkey), Semiramis Ozylmaz, Pınar Atagül Güney

OA5180 The evidence of benefits of exercise training: L long-term effects of pulmonary rehabilitation in Idiopathic Pulmonary Fibrosis.
Maurizia Lanza (Lusciando (CE), Italy), Ilermando Meoli, Pasquale Imitazione, Salvatore Musella, Anna Annunziata, Giuseppe Fiorentino

OA5181 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

OA5182 Management of chronic breathlessness: a multinational survey of respiratory medicine and palliative care doctors
Caroline Jolley (London, United Kingdom), Malgorzata Krajnik, Nilay Hepgul, Andrew Wilcock, Ewa Jassem, Tomasz Bandurski, Silvia Tanzi, Steffen T Simon, Irene J Higginson

OA5183 Effects of pulmonary rehabilitation on the sensory and affective dimension of dyspnea
Virginie Molinier (Lodève, France), Nathalie Fernandes, Pauline Caille, François Alexandre, Nelly Heraud
**OA5184 Discussion**

Channel 4  
Session 475  
15:40 - 16:40

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)

OA5185 Introduction

OA5186 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

OA5187 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

OA5188 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, Huyun J Kim, Mrudul Gulati, Thomas B Leonard, Scott M Palmer, Imre Noth, Christian Hesslinger

OA5189 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

OA5190 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

OA5191 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

OA5192 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 Horinatsu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Shinziru Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

OA5193 Discussion

**Studio Madrid**  
Session 476  
15:40 - 16:40

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)

15:40 Introduction

15:45 CoVID 19: clinical characteristics and outcome  
Alexandre Demoule (Paris, France)

15:55 Respiratory support and viral transmission  
Stefano Nava (Bologna (BO), Italy)
Symposium: Improving the delivery of tobacco-use treatment
Successful stories in European and non-European countries

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)

15:40 Introduction

15:45 The effectiveness, health gains and barriers of an in-hospital tobacco cessation intervention. The Ottawa model: a successful story.
Sophia Papadakis (Ottawa (ON), Canada)

15:54 A pragmatic tobacco cessation approach: the UK Very Brief Advice and Brief Support and Treatment models for smokers during routine consultations
Alex Bobak (London, United Kingdom)

16:03 Patient perspective
Isabel Saraiva (Cascais, Portugal)

16:08 How Austria may benefit from a comprehensive smoke-free policy: promoting population-based smoking cessation
Hanns Moshammer (Wien, Austria)

16:17 Engaging patients in smoking cessation: from patient involvement to patient health education
Monica Fletcher (Cuckfield, United Kingdom)

16:26 Discussion and Q & A
### Studio Vienna

**Session 479**  
**15:40 - 17:50**

**Grand round: Lung cancer grand round**

**Aims:** To describe different aspects in the diagnosis and management of intrathoracic tumours, based on challenging clinical cases.

**Disease(s):** Thoracic oncology

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Medical Student, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

**15:40** Introduction

**15:45** A patient with a lazarus effect on tyrosine kinase inhibition  
Dragana M. Jovanović (Beograd, Republic of Serbia)

**16:05** Discussion and Q & A

**16:15** Advanced non small cell lung cancer: an approach fit for the twenties  
Wouter H. van Geffen (Leeuwarden, Netherlands)

**16:35** Discussion and Q & A

**16:45** A rare case of oligometastatic disease  
Georgia Hardavella (Athens, Greece)

**17:05** Discussion and Q & A

**17:15** Adenoid cystic carcinoma of the trachea: not so benign  
Jo Raskin (Kessel-Lo, Belgium)

**17:35** Discussion and Q & A

### Channel 1

**Session 480**  
**16:50 - 18:00**

**Language session: Spanish/Portuguese programme 2020: Part I**  
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

**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), Thoracic oncologist, Respiratory therapist, Journalist

**Chairs:** Mark Cohen Todd (Guatemala City, Guatemala), Carlos Andres Jimenez Ruiz (Madrid, Spain), Paula Maria Gonçalves Pinto (Lisboa, Portugal)

**16:50** Introduction

**16:55** 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)

**17:05** 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 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)

OA5240  Introduction

OA5241  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

OA5242  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 Thèbaud

OA5243  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

OA5244  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

OA5245  Fetal weight is inversely correlated with airway smooth muscle thickness after hypoxia in mice
Kimberley Wang (Southern River, Australia), Peter Noble

OA5246  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

OA5247  Analysis of gene-gene interactions in Buryats adolescents with asthma
Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinchenko

OA5248  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 Ug bona, Hemant Kulkarni, Min Ong, Kay White

OA5249  Candidate genes predisposing to the development of asthma in Buryat adolescents
Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinchenko

OA5250  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)

OA5251  Introduction

OA5252  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-Petri ch, Gwenaël Lorillon, Sylvie Chevet, Abdellatif Tazi
**OA5253**

**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 Hortelano Blanco

**OA5254**

**Interstitial lung diseases associated with mutations of poly(A)-specific ribonuclease: a multicentric retrospective cohort study**

Quentin Philippot (Paris, France), Caroline Kannengiesser, Ibrahima Ba, Anne Gondouin, Jean-Marc Naccache, Martine Reynaud-Gobert, Yurdagul Uzunhan, Benjamin Bondue, Dominique Israel Biet, Effrosyne Manali, Spyros Papiris, Lidwine Wemeau, Sandrine Hirschi, Hervé Mal, Hilario Nunes, Frédéric Schlemmer, Matthieu Rigaud, Vincent Cottin, Bruno Crestani, Raphaël Borie

**OA5255**

**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, Vanesa Vicens-Zygmunt, Marta Garcia Moyano, Jordi Dorca, Carlos Flores, Rosario Perona, Antonio Román, Maria Molina-Molina

**OA5256**

**Acute exacerbation in combined pulmonary fibrosis and emphysema (CPFE): what special features?**

Hana Mrassi (Tunis, Tunisia), Imen Bachouch, Nidhal Belloumi, Fatma Chermiti, Soraya Feniche

**OA5257**

**Assessment of fibrosis in lung biopsies from the European childhood interstitial lung disease (chILD) registry**

Matthias Griese (München, Germany), Elias Seidl, Katrin Knoflach, Julia Ley-Zaporozhan, Birgit Kammer, Ingrid Knueger-Stollfuss, Simone Reu-Hofer, Nicolaus Schwerk, Julia Carlens, Martin Wetzk, Nagehan Emiralioglu, Nural Kiper, Florian Stehling, Joanna Lange, Katarzyna Krenke

**OA5258**

**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  Palliative 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.
Studio Paris Session 486 16:50 - 17:50
Symposium: 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: Tobias Welte (Hannover, Germany), Eva Polverino (Barcelona, Spain)

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<td>Introduction</td>
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<td>16:55</td>
<td>Mucus and microbes: why does bronchiectasis develop?</td>
<td>Kathryn Ramsey (Bern, Switzerland)</td>
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<td>17:05</td>
<td>State of the art management of bronchiectasis</td>
<td>Anne O'Donnell (Washington, United States of America)</td>
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<td>17:15</td>
<td>Management of chronic airway infection in bronchiectasis</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<td>17:25</td>
<td>Where do we go from here? Future directions, endpoints and approaches</td>
<td>Francesco Blasi (Milan, Italy)</td>
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<td>17:35</td>
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Channel 2 Session 487 18:00 - 19:00
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

Chairs: Marco Idzko (Wien, Austria)
Plasma protein profiles as markers of asthma severity and exposure to oral corticosteroids in U-BIOPRED and BIOAIR
Maria Mikus (Stockholm, Sweden), Johan Kolmert, Anna James, Lars I Andersson, Jörgen Ostling, Cristina Gomez, Richard Knowles, Barbro Dahlén, Ratko Djukanovic, Ian M Adcock, Peter Nilsson, Sven-Erik Dahlén

Anti-IL-5 therapy and the airway microbiome in asthma.
Ashley Sullivan (Cork, Ireland), Chris Ward, Deborah Casey, Deirdre Flynn, Eoin B. Hunt, Joseph A. Eustace, Paul M. O’Byrne, Barry J. Plant, John A. Macsharry, Desmond M. Murphy

Continued long-term mepolizumab in severe eosinophilic asthma protects from asthma worsening versus stopping mepolizumab: COMET trial
Neil Martin (Leicester, United Kingdom), Elisabeth H.D. Bel, Wendy C Moore, Oliver Kornmann, Claude Poirier, Nirihiro Kaneko, Steven G Smith, Neil Martin, Martyn J Gilson, Robert G Price, Eric S Bradford, Marc Humbert

Clinical trial: Impact of Probiotical® on asthma control and inflammation
Catherine Moermans (Liège, Belgium), Sophie Graff, Laurie Medard, Florence Schleich, Virginie Paulus, Françoise Guissard, Monique Henket, Renaud Louis

Effect of dupilumab on oral corticosteroid use in severe asthma patients with improving lung function
Jorge F. Maspero (Buenos Aires, Argentina), David M.G. Halpin, David Jackson, Nicola A. Hanania, Mario Castro, Christian Domingo, Nadia Daizadeh, Michel Djandji, Paul Rowe, Yamo Deniz

CD6-ALCAM Pathway is Elevated in Patients with Severe Asthma
Manali Mukherjee (Hamilton (ON), Canada), Nan Zhao, Katherine Radford, Sole Gatto, Adam Pavlicek, Jeanette Ampudia, Cherie Ng, Stephen Connelly, Param Nair

The impact of anti-IgE treatment on the airway microbiome in asthma.
Ashley Sullivan (Cork, Ireland), Chris Ward, Deborah Casey, Deirdre Flynn, Eoin B. Hunt, Joseph A. Eustace, Paul M. O’Byrne, Barry J. Plant, John A. Macsharry, Desmond M. Murphy

Introduction

Silvia Bloise (Roma (RM), Italy), 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

Celine Delestrain (Creteil, France), Guillaume Thouvenin, Nicolas Richard, Fouad Madhi, Laura Berdah, Houman El Jurdi, Annick Clement, Ralph Epaud, Harriet Corvol, Nadia Nathan

The use of combined endoscopy in a UK paediatric aerodigestive program
Grace Mussell (Sheffield, United Kingdom), Gary Wall, Ravi Thvasagayam, David Campbell, Sonal Kansra

Idiopathic Pulmonary Haemosiderosis: Factors That Effect Prognosis
Mina Gharibzadeh Hizal (Ankara, Turkey), Sanem Eryilmaz Polat, Tugba Ramasli Gursoy, Dilber Ademhan Tural, Beste Ozesen, Nagehan Emiralioglu, Suygi Pekcan, Ayse Tana Aslan, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper

Lung ultrasound (LUS) in bronchiolitis
Domenico Paolo La Regina (Roma, Italy), Silvia Bloise, Raffaella Nenna, Marco Laudisa, Laura Petrarca, Greta Di Mattia, Luigi Matera, Enrica Mancino, Fabio Midulla

Multidisciplinary team meetings dedicated to children interstitial lung diseases (chILD) - a 2-years experience
Nadia Nathan (Paris, France), Alice Hadchouel, Maryem Sari Hassan, Céline Lustremant, Delphine Habouria, Annick Clement, Ralph Epaud, For The Respirare And Respifil Groups

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)

Silvia Bloise (Roma (RM), Italy), 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

Celine Delestrain (Creteil, France), Guillaume Thouvenin, Nicolas Richard, Fouad Madhi, Laura Berdah, Houman El Jurdi, Annick Clement, Ralph Epaud, Harriet Corvol, Nadia Nathan

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Lung ultrasound (LUS) in bronchiolitis
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Multidisciplinary team meetings dedicated to children interstitial lung diseases (chILD) - a 2-years experience
Nadia Nathan (Paris, France), Alice Hadchouel, Maryem Sari Hassan, 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, Monica Fernández Cancio, Ida Paramonov, Silvia Castillo Corullon, Maria Cols, Araceli Caballero, Carlos Martin De Vicente, Oscar Asensio, Ana Reula, Amparo Eseribuno, Francisco Dasi, Miguel Armengot Carceller, Eduardo Tizzano, Antonio Moreno Galido

Discussion

Channel 4  Session 489  18:00 - 19:00

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)

Introduction

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 Arustamov, Pavel Philippov

Genomic factors associated with katG-S315T in M. tuberculosis clinical isolates in Vietnam
Naoto Keicho (Tokyo, Japan), Nguyen Thi Le Hang, Minako Hijikata, Shinji Maeda, Akiko Miyabayashi, Shintaro Seto, Nguyen Thi Kieu Diem, Nguyen Thi Thanh Yen, Pham Huu Thuong, Hoang Van Huan, Nguyen Phuong Hoang, Satoshi Mitaara, 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 Möller Weinreich

Mortality and associated factors among drug-resistant tuberculosis patients in Portugal, 2000-2016
Olena Oliveira (Porto, Portugal), Rita Gaio, 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 Krasińska, Wojciech Feleszko, Marek Kulus

Discussion

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.

Disease(s) : Airway diseases
Method(s) : Physiology  Pulmonary rehabilitation  Respiratory intensive care
Tag(s) : Clinical
Target audience: Adult pulmonologist/clinician, Clinical researcher, General practitioner, Medical student, Medical technical assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist, Thoracic surgeon
Chairs: Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

Introduction

Diagnosing management and measures of frailty
Matteo Cesari (Milan, Italy)
Skeletal muscle stem cells and capillaries: important neighbours in muscle tissue of COPD patients
Tim Snijders (Maastricht, Netherlands)

Frailty during and after hospitalisation
Margaret Herridge (Toronto (ON), Canada)

Frailty in chronic lung disorders
Lies Lahousse (Ghent, Belgium)

Rehabilitative interventions to reverse frailty
Matthew Maddocks (London, United Kingdom)

Discussion and Q & A

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)

Introduction

Heated tobacco products - differences and uncertainties
Reto Auer (Bern, Switzerland)

E-cigarettes and smoking cessation: the evidence or the non-evidence
Charlotta Pisinger (Frederiksberg, Denmark)

Clinical aspects of lung injury associated with e-cigarettes or vaping
Mikhail Kazachkov (New York, United States of America)

Pathology of Vaping-Associated Lung Injury
Yasmeen Butt (Phoenix, United States of America)

Discussion and Q & A

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 reflexion 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)

Case 1 - Author: Kayan Chiang (Hong Kong)

Discussion and Q & A

Case 2 - Author: Emily Harvey (United Kingdom)
Discussion and Q & A

Case 3 - Author: Michael Jan Engelhardt (Germany)

Discussion and Q & A

Case 4 - Author: Ana Luisa Fernandes (Portugal)

Discussion and Q & A

18:00 Introduction

18:02 Presentation of cases by the session facilitator

Sam Janes (London, United Kingdom)

Channel 1 Session 494 18:10 - 19:00

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
José 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

19:15-20:15

INDUSTRY EVENING SYMPOSIUM  SEE PAGE 1

20:30-21:30

INDUSTRY EVENING SYMPOSIUM  SEE PAGE 1
INDUSTRY SPONSORED SESSIONS
### Industry early morning symposium: Treatable Traits: From discussion to action
Organised by GlaxoSmithKline

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Leader</th>
</tr>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome and introduction</td>
<td>Neil C. Barnes (London, United Kingdom)</td>
</tr>
<tr>
<td>08:08</td>
<td>Treatable Traits: Time for change</td>
<td>Alvar Agusti García-Navarro (Barcelona, Spain)</td>
</tr>
<tr>
<td>08:22</td>
<td>Treatable Traits: Established and emerging</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), UK)</td>
</tr>
<tr>
<td>08:36</td>
<td>Treatable Traits: Live it, breathe it</td>
<td>Vanessa M. McDonald (Newcastle (NSW), Australia)</td>
</tr>
<tr>
<td>08:50</td>
<td>Panel Q&amp;A, summary and close</td>
<td>Neil C. Barnes (London, United Kingdom)</td>
</tr>
</tbody>
</table>

### Industry early morning symposium: Relegating OCS to last resort: creating a paradigm shift in severe asthma management
Organised by AstraZeneca

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Leader</th>
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<tbody>
<tr>
<td>08:15</td>
<td>Welcome and objectives</td>
<td>John Upham (Brisbane, QLD, Australia)</td>
</tr>
<tr>
<td>08:20</td>
<td>Inappropriate OCS use in severe asthma: the clinical and economic burden</td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>08:30</td>
<td>OCS and adrenal insufficiency: an endocrinologist perspective</td>
<td>Mark Gurnell (Cambridge, UK)</td>
</tr>
<tr>
<td>08:40</td>
<td>Identifying patients with severe asthma and adopting OCS stewardship</td>
<td>David J Jackson (London, United Kingdom)</td>
</tr>
<tr>
<td>08:55</td>
<td>Panel discussion: supporting OCS stewardship by driving behaviour change in severe asthma</td>
<td>John Upham (Brisbane, QLD, Australia), David Price (Singapore, Singapore), Mark Gurnell (Cambridge, United Kingdom), David J Jackson (London, United Kingdom)</td>
</tr>
<tr>
<td>09:10</td>
<td>Meeting close</td>
<td>John Upham (Brisbane, QLD, Australia)</td>
</tr>
<tr>
<td>09:15</td>
<td>Breakout: interactive expert Q&amp;A session on relegating OCS to last resort in severe asthma</td>
<td>John Upham (Brisbane, QLD, Australia), David Price (Singapore, Singapore), Mark Gurnell (Cambridge, United Kingdom), David J Jackson (London, United Kingdom)</td>
</tr>
</tbody>
</table>

### Industry early morning symposium: www.RethinkNTM – Who, Why and When?
Organised by Insmed Ireland Ltd.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>08:15</td>
<td>Introduction</td>
<td>Gernot G.U. Rohde (Frankfurt am Main, Germany)</td>
</tr>
<tr>
<td>08:20</td>
<td>Who is the NTM patient?</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
</tr>
<tr>
<td>08:30</td>
<td>NTM: Why is effective therapy so challenging?</td>
<td>Gernot G.U. Rohde (Frankfurt am Main, Germany)</td>
</tr>
</tbody>
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ERS 2020 International Congress  
**INDUSTRY SPONSORED SESSIONS**  
**MONDAY 07 SEPTEMBER, 2020**
08:45  **NTM: New guidelines on when and how to treat Mycobacterium avium complex (MAC)**  
Christoph Lange (Borstel, Germany)  

09:00  **Q&A from the audience**  

09:10  **Summary and close**  
Gernot G.U. Rohde (Frankfurt am Main, Germany)  

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)  

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**Channel 4. Session 265 08:15 - 09:15**

**Industry early morning symposium: Infection control and availability at point of care**
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)  

- **08:35**  
  *Disposable and reusable bronchoscope - Opinion exchange*  
  Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)  

- **09:00**  
  *Live Q&A*  
  Erik H.F.M. van der Heijden (Nijmegen, Netherlands), Rocco Trisolini (Bologna (BO), Italy)

---

**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**
Organised by Abbott

**Chairs:** Jonathan Cooke (, United Kingdom)

- **08:15**  
  *Welcome and introduction*  
  Jonathan Cooke (, United Kingdom)  

- **08:30**  
  *Antibiotics for Acute Exacerbations of COPD: PACE Trial Results*  
  Nicholas Francis (, United Kingdom)  

- **08:45**  
  *Severity assessment and outcome prediction in COVID-19 patients*  
  Ivan Gentile (, Italy)  

- **09:00**  
  *Panel Discussion and Questions and Answers*  

---

**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)  

- **13:45**  
  *Aerosol drug delivery to the non-ventilated patient*  
  Sundeep Kaul (London, United Kingdom)  

- **13:45**  
  3885  

- **14:00**  
  3886

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**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)
### Industry Device Mini Symposia: Meet the experts for case-based discussion for diagnostic bronchoscopy
Organised by Olympus Europa SE & Co. KG

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<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</td>
<td>Billingham, United Kingdom</td>
</tr>
<tr>
<td>13:35</td>
<td>Case-based discussion: EBUS-TBNA</td>
<td>Pallav L. Shah</td>
<td>London, United Kingdom</td>
</tr>
<tr>
<td>13:55</td>
<td>Case-based discussion: EVIS X1 Diagnostic Bronchoscopy</td>
<td>Ralf Eberhardt</td>
<td>Heidelberg, Germany</td>
</tr>
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### Industry Device Mini Symposia: Advances in transcutaneous CO2 monitoring in the acute and chronic setting: from science to clinical application
Organised by Sentec AG

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Introduction and Live Demonstrations</td>
<td>Wolfram Windisch</td>
<td>Cologne, Germany</td>
</tr>
<tr>
<td>13:30</td>
<td>Rationale and scientific background</td>
<td>Wolfram Windisch</td>
<td>Cologne, Germany</td>
</tr>
<tr>
<td>13:45</td>
<td>Indications, practical considerations, and pitfalls</td>
<td>João Carlos Winck Fernandes Cruz</td>
<td>Vila Nova de Gaia, Portugal</td>
</tr>
<tr>
<td>14:00</td>
<td>Questions from audience to faculty</td>
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### Industry Device Mini Symposia: Importance of early wheeze detection in young children to minimize asthma exacerbations
Organised by OMRON Healthcare Europe B.V.

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</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</td>
<td>Haidari (Athens), Greece</td>
</tr>
<tr>
<td>13:35</td>
<td>The struggle of pediatrics and parents with a wheezing child</td>
<td>Bülent Taner Karadag</td>
<td>Istanbul, Turkey</td>
</tr>
<tr>
<td>13:50</td>
<td>Introducing WheezeScan: a new tool to help parents confirm a wheeze</td>
<td>Willem van Aalderen</td>
<td>Amsterdam, Netherlands</td>
</tr>
<tr>
<td>14:05</td>
<td>Q&amp;A</td>
<td>Willem van Aalderen</td>
<td>Amsterdam, Netherlands</td>
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</tbody>
</table>

### Industry lunchtime symposium: SABA status quo: state of emergency from policy to patient
Organised by AstraZeneca
Channel 2.

Session 298 13:15 - 14:15

Industry lunchtime symposium: The Treatment of Severe Respiratory Disorders in Challenging Times
Organised by CSL Behring
Chairs: Timm Greulich (Marburg, Germany), Tobias Welte (Hannover, Germany), Marco Idzko (Wien, Austria)

Welcome and introduction
Timm Greulich (Marburg, Germany), Michael Larbig (Bern, Switzerland)

Challenges of Treating Lung Disease Caused by COVID-19
Tobias Welte (Hannover, Germany), Maria Campos Miranda Duarte Sucena (Porto, Portugal), Felix J.F. Herth (Heidelberg, Germany)

Treatment of Alpha 1 Antitrypsin Deficiency in Times of COVID-19
Timm Greulich (Marburg, Germany), Alice Turner (Birmingham (West Midlands), United Kingdom), Robert A. Sandhaus (Bow Mar, United States of America)

The Impact of Alpha 1 Antitrypsin Deficiency Therapy on Mortality
Timm Greulich (Marburg, Germany), Alice Turner (Birmingham (West Midlands), United Kingdom), Robert A. Sandhaus (Bow Mar, United States of America)

Development of Specialised Treatments for Severe Respiratory Conditions
Marco Idzko (Wien, Austria), Dave Singh (Manchester, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom)

Summary and closing remarks

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)

Time for change? Opening address
Toby Maher (St. Albans, United Kingdom)

Novel imaging modalities in interstitial lung disease
Paul Ford (Hurstpierpoint (W. Sussex), United Kingdom), Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom)
## 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)

- **13:15** New ways of thinking to home NIV in a post COVID era  
  Nicholas Hart (London, United Kingdom)  
  (3922)

- **13:35** Efficacy of an Automated Non-Invasive Ventilation in patients with Obesity Hypoventilation Syndrome  
  Maxime Patout (Mont-Saint Aignan, France)  
  (3923)

- **13:55** Use of an Automated Non-Invasive Ventilation approach in obese patients with chronic respiratory failure: Learnings from the OPIP trial  
  Patrick B. Murphy (Oxted (Surrey), United Kingdom)  
  (3924)

## 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)

- **19:15** Welcome, introduction and opening remarks  
  Fernando J. Martinez (New York, United States of America)  
  (4217)

- **19:20** A journey through the past: the burden associated with the ‘step-wise’ approach to COPD management  
  John R Hurst (London, United Kingdom)  
  (4218)

- **19:35** A ‘state-of-the-art’ approach: benefits of fixed-dose combination triple therapies  
  Fernando J. Martinez (New York, United States of America)  
  (4219)

- **19:55** Looking to the future: pioneering a proactive approach to optimise management of our patients with COPD  
  Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)  
  (4220)

- **20:07** Audience Q & A and concluding remarks  
  Fernando J. Martinez (New York, United States of America)  
  (4221)

- **20:15** 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)  
  (4222)

## Channel 2. Session 338 19:15 - 20:15

**Industry evening symposium: Course and Management of Fibrosing ILDs: What Do the Data Tell Us?**

Organised by Boehringer Ingelheim International GmbH  

**Chairs:** Luca Richeldi (Roma, Italy)

- **19:15** Welcome and introduction  
  Luca Richeldi (Roma, Italy)  
  (4223)
Channel 3.  
Session 339  
19:15 - 20:15  
Industry evening symposium: Mepolizumab: Precision medicine in eosinophilic inflammation  
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  

Channel 4.  
Session 340  
19:15 - 20:15  
Industry evening symposium: Maximising the benefits of inhaled therapies in asthma  
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)  
19:20 Uncontrolled asthma in the 21st century: where are the issues?  
Kenneth R. Chapman (Toronto (ON), Canada)  
19:35 Inhaled therapies: how can we maximise their potential?  
- Making the most of every breath for 24 hours  
- Making the most of the day with asthma  
Richard Van Zyl-Smit (Cape Town, South Africa), Christine Jenkins (Mc Mahons Point (NSW), Australia)  
20:05 Panel discussion  
20:10 Summary and close  
Christine Jenkins (Mc Mahons Point (NSW), Australia)  

Channel 5.  
Session 341  
19:15 - 20:15  
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)  
19:15 Opening Remarks  
Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany), Arnaud Bourdin (Montpellier Cedex 5, France)
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<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>
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<tr>
<td>19:35</td>
<td>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>
<td>4241</td>
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<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>
<td>4242</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>
<td>4243</td>
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<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>
<td>4245</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>
<td>4246</td>
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<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>
<td>4247</td>
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**Channel 6.**

**Session 342 19:15 - 20:15**

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)

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<tr>
<td>19:15</td>
<td>Setting the scene</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>4248</td>
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<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>
<td>4249</td>
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<tr>
<td>19:30</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>4250</td>
</tr>
<tr>
<td>19:50</td>
<td>Trainers and Trainees: how to ensure successful inhalation treatment for patients?</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
<td>4251</td>
</tr>
<tr>
<td>20:00</td>
<td>Changing perceptions and improving asthma outcomes: spotlight on MART</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>4252</td>
</tr>
<tr>
<td>20:10</td>
<td>Summary &amp; meeting close</td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
<td>4253</td>
</tr>
<tr>
<td>20:15</td>
<td>Breakout session: This will be your opportunity to interact with all of our faculty!</td>
<td>Eric D. Bateman (Cape Town, South Africa), Klaus F. Rabe (Kiel, Germany), Lauri Lehtimäki (Tampere, Finland), Omar S. Usmani (London, United Kingdom)</td>
<td>4254</td>
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**Channel 2.**

**Session 343 20:30 - 21:30**

Industry evening symposium: Everything you always wanted to know about COPD

Organised by Menarini Group

**Chairs:** Bartolome R. Celli Croquer (Boston, United States of America), Alvar Agusti Garcia-Navarro (Barcelona, Spain)

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<tbody>
<tr>
<td>20:30</td>
<td>Introduction</td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
<td>4255</td>
</tr>
<tr>
<td>20:35</td>
<td>A journey back to early life</td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain)</td>
<td>4256</td>
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<td>Time</td>
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<tr>
<td>20:30</td>
<td><strong>Molecules, devices and dosages</strong></td>
<td>Sanjay Sethi (Buffalo, United States of America)</td>
<td>4257</td>
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<tr>
<td>21:05</td>
<td><strong>Peeking into the Future: How has COVID19 impacted this view</strong></td>
<td>Bartolome R. Celli Croquer (Boston, United States of America)</td>
<td>4258</td>
</tr>
<tr>
<td>21:20</td>
<td><strong>Conclusions &amp; Take-Home Messages</strong></td>
<td>Alvar Agusti Garcia-Navarro (Barcelona, Spain), Sanjay Sethi (Buffalo, United States of America), Bartolome R. Celli Croquer (Boston, United States of America)</td>
<td>4259</td>
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**Channel 3.**  
**Session 344  20:30 - 21:30**  
**Industry evening symposium: Elevate the Standard in Endobronchial Lung Cancer Diagnosis and Staging**  
Organised by Olympus Europa SE & Co. KG  
**Chairs:** Felix J.F. Herth (Heidelberg, Germany)

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<tbody>
<tr>
<td>20:30</td>
<td>&quot;The rise of the nodules&quot; - update and case presentation in interventional Lung Cancer techniques</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Stefano Gasparini (Ancona (AN), Italy)</td>
<td>4260</td>
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<tr>
<td>20:45</td>
<td>Expand your possibilities in EBUS-TBNA - how to get the most out of your EBUS-TBNA service</td>
<td>Stefano Gasparini (Ancona (AN), Italy)</td>
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<td>21:00</td>
<td>Bringing bronchoscopy to the next level with the new EVIS X1 Endoscopy Platform</td>
<td>Felix J.F. Herth (Heidelberg, Germany)</td>
<td>4262</td>
</tr>
<tr>
<td>21:15</td>
<td>Q&amp;A Session</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Stefano Gasparini (Ancona (AN), Italy)</td>
<td>4263</td>
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**Channel 4.**  
**Session 345  20:30 - 21:30**  
**Industry evening symposium: The new reality – better asthma care supported by digital health solutions**  
Organised by Novartis Pharma AG  
**Chairs:** David Price (Singapore, Singapore)

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<tbody>
<tr>
<td>20:30</td>
<td>Welcome and introduction</td>
<td>David Price (Singapore, Singapore)</td>
<td>4264</td>
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<tr>
<td>20:33</td>
<td>Digital solutions to real world challenges: addressing unmet needs with digital technology</td>
<td>David Price (Singapore, Singapore)</td>
<td>4265</td>
</tr>
<tr>
<td>20:48</td>
<td>Digital innovation: supporting the progress of asthma management</td>
<td>Konstantinos Kostikas (Ioannina, Greece)</td>
<td>4266</td>
</tr>
<tr>
<td>21:03</td>
<td>Digital applications for current and future asthma management</td>
<td>Holger Woehrle (Ulm, Germany)</td>
<td>4267</td>
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<tr>
<td>21:18</td>
<td>Panel discussion</td>
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<td>4268</td>
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<tr>
<td>21:28</td>
<td>Summary and close</td>
<td>David Price (Singapore, Singapore)</td>
<td>4269</td>
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**Channel 5.**  
**Session 346  20:30 - 21:30**  
**Industry evening symposium: What will the decade bring in new treatment options for ILD patients?**  
Organised by F. Hoffmann-La Roche Ltd  
**Chairs:** Maria Molina Molina (Barcelona, Spain)

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<th>Time</th>
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<tbody>
<tr>
<td>20:30</td>
<td>Opening remarks</td>
<td>Maria Molina Molina (Barcelona, Spain)</td>
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<tr>
<td>20:35</td>
<td>What will ILD management beyond IPF look like?</td>
<td>Anna Maria Hoffmann-Vold (Oslo, Norway), Carlo Vancheri (Catania (CT), Italy)</td>
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</tbody>
</table>
## 20:55 The promising future of IPF treatment
Vincent Cottin (Lyon, France)

### 21:10 Q&A
Anna Maria Hoffmann-Vold (Oslo, Norway), Carlo Vancheri (Catania (CT), Italy), Vincent Cottin (Lyon, France)

### 21:25 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**
Organised by MSD

**Chairs:** TBC TBC, TBC TBC

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>20:30</td>
<td>Welcome and Opening Remarks</td>
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<tr>
<td>20:36</td>
<td>Antibiotic clinical trial updates in severe respiratory infections</td>
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<tr>
<td>20:48</td>
<td>New antibiotics for resistant Gram-negative infections: the positives and the negatives</td>
<td></td>
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<tr>
<td>21:00</td>
<td>Bacterial pneumonia complicating COVID-19</td>
<td>Ricard Ferrer</td>
</tr>
<tr>
<td>21:12</td>
<td>Panel Q &amp; A</td>
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<tr>
<td>21:24</td>
<td>Closing Remarks</td>
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</tbody>
</table>
Channel 1.  
Session 348  
08:00 - 09:00

Industry early morning symposium: Real-world data from patients with ILDs: challenges, learnings and opportunities
Organised by Boehringer Ingelheim International GmbH

Chairs: Jürgen Behringer (Niederlauern, Germany)

08:00  Welcome and introduction
Jürgen Behringer (Niederlauern, Germany)

08:15  Interpreting real-world data from patients with ILDs
Jürgen Behringer (Niederlauern, 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

Channel 2.  
Session 349  
08:15 - 09:15

Industry early morning symposium: Nasal High Flow Non Invasive Respiratory Support for COVID-19 Patients
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
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
Organised by Novartis Pharma AG

Chairs: Nikolaos Papadopoulos (Manchester, United Kingdom)

08:15  Welcome and introduction
Nikolaos Papadopoulos (Manchester, United Kingdom)
Guidelines for the management of severe allergic asthma in children: the omalizumab experience
Sharon Dell (Vancouver, British Columbia, Canada)

How can omalizumab address the challenges in the management of severe allergic asthma?
Nikolaos Papadopoulos (Manchester, United Kingdom)

How do viruses impact paediatric asthma?
Adnan Custovic (London, United Kingdom)

Allergic multimorbidities in children: what does the future hold?

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)

Setting the scene
Eric D. Bateman (Cape Town, South Africa)

Why do some patients with COPD benefit from inhaled corticosteroids treatment?
Klaus F. Rabe (Kiel, Germany)

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)

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)

Case-based discussion: Valve Therapy for Emphysema
Arschang Valipour (Wien, Austria)

Case-based discussion: Tracheal Stent Placement
Kaid Darwiche (Essen, Germany)

Case-based discussion: EVIS X1 Therapeutic Bronchoscopy
Mohammed Munavvar (Preston (Lancashire), United Kingdom)

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:

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)

Introducing Narval Easy™, the first collaborative platform for MAD-prescribed OSA patient follow-up
Mark Schalabi
### Session 383: 13:15 - 14:15

**No Room**

**Industry Device Mini Symposia: MI-E Graphics Analysis: Improving the application and effectiveness of cough therapy**

*Organised by Philips*

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<tr>
<td>13:15</td>
<td><em>An introduction to MI-E graphics analysis</em></td>
<td>Jon Nilsestuen</td>
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<tr>
<td>13:35</td>
<td><em>An Examination of Upper Airway Stability in the Bulbar ALS Phenotype</em></td>
<td>David Troxell (San Luis Obispo, United States of America)</td>
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<td>13:45</td>
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<td>14:00</td>
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### Session 384: 13:15 - 14:15

**Channel 1**

**Industry lunchtime symposium: Frontiers in eosinophilic diseases**

*Organised by AstraZeneca*

**Chairs:** David J Jackson (London, United Kingdom)

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<tbody>
<tr>
<td>13:15</td>
<td>Welcome and introduction</td>
<td>David J Jackson (London, United Kingdom)</td>
</tr>
<tr>
<td>13:20</td>
<td><em>The role of eosinophils in health and disease development</em></td>
<td>Florence Roufosse (Brussels, Belgium)</td>
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<tr>
<td>13:35</td>
<td><em>Eosinophils as the effector cell in chronic airways inflammation</em></td>
<td>David J Jackson (London, United Kingdom)</td>
</tr>
<tr>
<td>13:55</td>
<td><em>Eosinophils as the effector cell in systemic inflammatory diseases</em></td>
<td>Praveen Akuthota (San Diego, United States of America)</td>
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<tr>
<td>14:10</td>
<td>Meeting close</td>
<td>David J Jackson (London, United Kingdom)</td>
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**Breakout: expert Q&A sessions**

- **The role of eosinophils in health and disease development**  
  Florence Roufosse (Brussels, Belgium)
- **Eosinophils as the effector cell in chronic airways inflammation**  
  David J Jackson (London, United Kingdom)
- **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)

### Session 385: 13:15 - 14:15

**Channel 2**

**Industry lunchtime symposium: New clinical and real-world data to inform treatment choices in COPD: Looking from a patient perspective**

*Organised by GlaxoSmithKline*

**Chairs:** Paul Jones (London, United Kingdom)

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<th>Speaker/Location</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Chair's introduction</td>
<td>Paul Jones (London, United Kingdom)</td>
</tr>
<tr>
<td>13:20</td>
<td><em>Inhalers? - The critical link between the molecules and patient benefit</em></td>
<td>Paul Jones (London, United Kingdom)</td>
</tr>
<tr>
<td>13:35</td>
<td>Improving symptoms</td>
<td>François Maltais (Québec (QC), Canada)</td>
</tr>
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</table>
### 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**

**Organised by Sanofi Genzyme and Regeneron**

**Chairs:** Anh Tuan Dinh-Xuan (Paris, France)

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<tbody>
<tr>
<td>13:15</td>
<td><strong>Introduction</strong></td>
<td>Anh Tuan Dinh-Xuan (Paris, France)</td>
<td>4543</td>
</tr>
<tr>
<td>13:25</td>
<td><strong>Role of Nitric Oxide in Type 2 Inflammation and Respiratory Physiology</strong></td>
<td>Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)</td>
<td>4544</td>
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<tr>
<td>13:35</td>
<td><strong>Audience Q &amp; A</strong></td>
<td></td>
<td>4545</td>
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<tr>
<td>13:40</td>
<td><strong>Utility of FeNO as a Biomarker in Asthma</strong></td>
<td>Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)</td>
<td>4546</td>
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<tr>
<td>13:50</td>
<td><strong>Audience Q &amp; A</strong></td>
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<tr>
<td>13:55</td>
<td><strong>Application of FeNO in Personalized Management of Patients with Severe Type 2 Asthma</strong></td>
<td>Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)</td>
<td>4548</td>
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<tr>
<td>14:05</td>
<td><strong>Audience Q &amp; A</strong></td>
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<tr>
<td>14:10</td>
<td><strong>Panel Closing Remarks</strong></td>
<td>Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)</td>
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### Channel 5.  
**Session 387 13:15 - 14:15**

**Industry lunchtime symposium: Managing COPD through innovative connected solutions**

**Organised by ResMed**

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<tbody>
<tr>
<td>13:15</td>
<td><strong>Putting patients first: Propeller Health’s asthma and COPD digital health platform.</strong></td>
<td>Michael Dreher (Aachen, Germany)</td>
<td>4551</td>
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<td>13:35</td>
<td><strong>High Flow Therapy at home: Perspectives for hypoxemic COPD patients.</strong></td>
<td>Maxime Patout (Mont-Saint Aignan, France)</td>
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<tr>
<td>13:55</td>
<td><strong>Why use telemonitoring for ventilated patients? A doctor’s perspective.</strong></td>
<td>Michelle Chatwin (London, United Kingdom)</td>
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### 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)

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<tr>
<td>19:15</td>
<td><strong>Co-chairs’ welcome</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
<td>4838</td>
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<td>19:20</td>
<td><strong>Raising the bar for the management of severe asthma: remission as the goal of therapy</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
<td>4839</td>
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<tr>
<td>19:30</td>
<td><strong>The airway epithelium as first line of defence: diverse downstream inflammatory cascades in response to viruses and allergens</strong></td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
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</table>
**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

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**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)

- **19:19**  
  **Reducing symptoms**  
  Claus Vogelmeier (Marburg, Germany)

- **19:35**  
  **Importance of preventing exacerbations**  
  Alice Turner (Birmingham (West Midlands), United Kingdom)

- **19:49**  
  **Increasing survival**  
  MeiLan K. Han (Ann Arbor, United States of America)

- **20:01**  
  **Is there a key target?**  
  Alberto Papi (Ferrara, Italy)

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**Session 425 19:15 - 20:15**

**Industry evening symposium: Severe asthma and co-morbid nasal polyposis: a patient-centric approach**

Organised by Novartis Pharma AG

**Chairs:** Antonio Nieto (Valencia, Spain)
### Session 426
**Channel 5.**

**Industry evening symposium: COPD and Air Leak treatment - Master Challenging Cases with Spiration Bronchial Valves**

**Organised by Olympus Europa SE & Co. KG**

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

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<tr>
<td>19:15</td>
<td>&quot;The force of bronchoscopy in obstructive lung disease&quot; - update and case presentation in interventional techniques for COPD</td>
<td>Ralf-Harto Hübner (Berlin, Germany)</td>
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<td>19:30</td>
<td>Final destination Air Leaks - undiscovered potential in bronchoscopy</td>
<td>Arschang Valipour (Wien, Austria)</td>
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<td>19:45</td>
<td>Bringing therapeutic bronchoscopy to the next level with the new EVIS X1 Endoscopy Platform</td>
<td>Pallav L. Shah (London, United Kingdom)</td>
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<tr>
<td>20:00</td>
<td>Q&amp;A Session</td>
<td>Ralf-Harto Hübner (Berlin, Germany), Pallav L. Shah (London, United Kingdom)</td>
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### Session 427
**Channel 6.**

**Industry evening symposium: Risk management & optimising treatment in Pulmonary Arterial Hypertension**

**Organised by MSD**

**Chairs:** Gérald Simonneau (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)

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<th>Time</th>
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<tr>
<td>19:15</td>
<td>What Does Registry Data Show Us About Risk Management of PAH Patients?</td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France)</td>
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<tr>
<td>19:35</td>
<td>Practical Approaches to Risk Stratification, How to Manage Intermediate Risk:</td>
<td>Olivier Sitbon (Le Kremlin-Bicêtre, France), Stephan Rosenkranz (Köln, Germany)</td>
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<td>Add-on Therapy</td>
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<td>Optimize the NO Pathway (transition)</td>
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<td>19:50</td>
<td>REPLACE Study Riociguat rEplacing PDE Si therapy evaluated Against Continued standard of care with PDE5</td>
<td>Marius M. Hoepner (Hannover, Germany)</td>
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<tr>
<td>20:05</td>
<td>Roundtable Q &amp; A and Discussion</td>
<td>Gérald Simonneau (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)</td>
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### Session 428
**Channel 1.**

**Industry evening symposium: Supporting the patient pathway in ILD management: from early diagnosis to advanced disease**

**Organised by F. Hoffmann-La Roche Ltd**

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<td>20:30</td>
<td>Opening remarks</td>
<td>Steven D Nathan (Falls Church, United States of America)</td>
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<tr>
<td>20:35</td>
<td>Panel Discussion: How do we ensure early and specific diagnosis of ILDs?</td>
<td>Steven D Nathan (Falls Church, United States of America), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup (Veje, Denmark), Nicola Sverzellati (Parma (PR), Italy)</td>
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## Channel 2.  
**Session 429**  
**20:30 - 21:30**  
**Industry evening symposium: Clinical Considerations for Targeting Type 2 Inflammation in Upper and Lower Airway Diseases**  
Organised by Sanofi Genzyme and Regeneron  

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<tr>
<td>20:30</td>
<td>Clearing the Air: Understanding the Pathophysiology of Type 2 Inflammatory Airway Diseases</td>
<td>Klaus F. Rabe (Kiel, Germany)</td>
<td>4871</td>
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<tr>
<td>20:50</td>
<td>Type 2 Inflammation As a Driving Force for Targeted Treatment of Severe Asthma</td>
<td>Andrea Matucci (Florence, Italy)</td>
<td>4872</td>
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<td>21:15</td>
<td>Advancing the Clinical Management of CRSwNP Through a Greater Understanding of Type 2 Inflammation</td>
<td>Stella Lee (Pittsburgh, United States of America)</td>
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## 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”**  
Organised by Grifols  
**Chairs**: Claus Vogelmeier (Marburg, Germany)  

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<td>New Real World Evidence Study: Comparison of augmentation naïve and augmented patients in AATD related lung disease</td>
<td>Robert A. Sandhaus (Bow Mar, United States of America)</td>
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<td>20:55</td>
<td>The future of AATD registry studies: example EARCO and its open questions</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
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<td>Pulmonary exacerbations and withdrawal of augmentation therapy</td>
<td>Oliver McElvaney (, Ireland)</td>
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<td>21:20</td>
<td>AATD treatment in current times: questions Summary and Close</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
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## Channel 4.  
**Session 431**  
**20:30 - 21:30**  
**Industry evening symposium: Waking and walking with COPD: Inhalation matters**  
Organised by Boehringer Ingelheim International Gmbh  
**Chairs**: Arschang Valipour (Wien, Austria)  

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<td>Waking and walking with COPD: A day in the life of your patient</td>
<td>MeiLan K. Han (Ann Arbor, United States of America)</td>
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### Industry evening symposium: Connected inhalers and communication: The value of emerging technologies in supporting remote management in asthma and COPD care

**Organised by Teva Pharmaceuticals Europe B.V.**

**Chairs:** Peter J. Barnes (London, United Kingdom)

#### Channel 5. Session 432  20:30 - 21:30

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<td>Peter J. Barnes (London, United Kingdom)</td>
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<td>The global burden of respiratory care: Why do we need to optimise inhaler use?</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
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<td>The digital age: Smart inhaler platforms for the management of patients with asthma and COPD</td>
<td>Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)</td>
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<td>Personalising respiratory care with connected inhaler technologies</td>
<td>John Haughney (Glasgow, United Kingdom)</td>
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<td>21:20</td>
<td>Summary and close</td>
<td>Peter J. Barnes (London, United Kingdom)</td>
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### Industry evening symposium: Management of recurrent pediatric respiratory tract infections and complications: a missed opportunity?

**Organised by OM Pharma SA**

**Chairs:** Manuel Soto Martínez (San José, Costa Rica)

#### Channel 6. Session 433  20:30 - 21:30

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<td>Respiratory tract infections during childhood and complications: etiopathogenesis and disease burden</td>
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<td>Interactive expert debate on the role of immunotherapy: rationale vs the evidence</td>
<td>Wojciech Feleszko (Warszawa, Poland), Alexander Möller (Zürich, Switzerland), Manuel Soto Martínez (San José, Costa Rica)</td>
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<td>Conclusions and Q &amp; A</td>
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### Channel 1. Session 434 08:15 - 09:15

**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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<td><strong>Implications of new guidelines for ICS use in COPD</strong></td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<td><strong>Is two really better than one? What the guidelines tells us</strong></td>
<td>Michael Dreher (Aachen, Germany)</td>
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<td><strong>How can we do the best for our patients?</strong></td>
<td>Arschang Valipour (Wien, Austria)</td>
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<td><strong>Panel discussion and closing comments</strong></td>
<td>Michael Dreher (Aachen, Germany)</td>
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### Channel 2. Session 435 08:15 - 09:15

**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><strong>The role of glutathione homeostasis in chronic obstructive lung disease</strong></td>
<td>Alberto Papi (Ferrara, Italy)</td>
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<td><strong>The role of pulmonary fibrosis in lung diseases</strong></td>
<td>Luca Richeldi (Roma, Italy)</td>
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<td><strong>Targeting oxidative stress: Experience during the Covid-19 pandemic, protection and prevention</strong></td>
<td>Joan B Soriano (Madrid, Spain)</td>
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<td>09:10</td>
<td><strong>Chair sum up and conclusion + Q &amp; A session live</strong></td>
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### No Room Session 458 13:15 - 14:15

**Industry Device Mini Symposia: Innovations to transform COPD & Asthma patient care**

*Organised by ResMed*

**Chairs:**

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<td>Lauren Closson, Melissa Williams</td>
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<td><strong>Bringing High Flow Therapy into the home for COPD patients: Lumis™ HFT</strong></td>
<td>Christian Wabnitz, Xabier Pilar</td>
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<td><strong>Q/A session</strong></td>
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### Channel 1. Session 459 13:15 - 14:15

**Industry lunchtime symposium: Relevant Endpoints in Asthma Patients (REAP)**

*Organised by GlaxoSmithKline*

**Chairs:** Kenneth R. Chapman (Toronto (ON), Canada)

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<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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Evolving data in asthma management
Kenneth R. Chapman (Toronto (ON), Canada)

Understanding how to achieve better effectiveness in asthma
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

Panel Discussion
Kenneth R. Chapman (Toronto (ON), Canada), Alberto Papi (Ferrara, Italy), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

Channel 2. Session 460 13:15 - 14:15
Industry lunchtime symposium: Remote monitoring of patients with Respiratory Failure receiving Home Mechanical Ventilation
Organised by Philips

13:15 Role of a Telemedicine approach in initiating home NIV for COPD patients
Marieke L. Duiverman (Groningen, Netherlands)

13:45 How should we telemonitor patients with respiratory failure treated with NIV?
João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)

Channel 3. Session 461 13:15 - 14:15
Industry lunchtime symposium: Severe eosinophilic asthma in the biologic era: From clinical studies to clinical practice
Organised by Teva Pharmaceuticals Europe B.V.
Chairs: Klaus F. Rabe (Kiel, Germany)

13:15 Welcome and introduction
Klaus F. Rabe (Kiel, Germany)

13:20 Severe asthma: The story so far
Klaus F. Rabe (Kiel, Germany)

13:30 The pathophysiological landscape of severe eosinophilic asthma
Roland Buhl (Mainz, Germany)

13:50 Which biologic and why? A closer look at clinical and real-world data
Guy Brusselle (Ghent, Belgium)

14:05 Summary and close
Klaus F. Rabe (Kiel, Germany)

Channel 5. Session 462 13:15 - 14:15
Industry lunchtime symposium: Improving pulmonary fibrosis diagnosis and care in Europe
Organised by Galapagos & European Idiopathic Pulmonary Fibrosis and Related Disorders Federation (EU-IPFF)
Chairs: Steve Jones (Cambridge, United Kingdom)

13:15 Welcome
Liam Galvin (Thurles, Ireland)

13:20 The path to diagnosis in Europe: Results of the EU-IPFF/Galapagos patient survey
Steve Jones (Cambridge, United Kingdom), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

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)
### Industry evening symposium: Management of Autoimmune Disease-Related ILDs: how can we improve outcomes for patients?

**Organised by:** Boehringer Ingelheim International GmbH  
**Chairs:** Vincent Cottin (Lyon, France)

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<td>Optimising the monitoring and treatment of SSc-ILD</td>
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<td>19:40</td>
<td>Pulmonary manifestations of autoimmune diseases beyond SSc - what do we have to consider?</td>
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### Industry evening symposium: The Lung, at the Heart of Pulmonary Arterial Hypertension

**Organised by:** Janssen Pharmaceutica NV  
**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)

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<td>The challenging journey to PAH diagnosis: Learnings from two clinical cases of PH</td>
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<td>Differential diagnosis of PH: Pearls for the pulmonologist</td>
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<td>How to assess risk and optimize treatment in patients with PAH</td>
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<td>Panel discussion with audience Q &amp; A</td>
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### Industry evening symposium: STAND UP AGAINST COPD: A hit Hard, or hit Right approach?

**Organised by:** Menarini group  
**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain)

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Channel 4. Session 498 19:15 - 20:15

Industry evening symposium: Protecting the planet: time for action!
Organised by Novartis Pharma AG
Chairs: Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

19:15 Welcome and introduction
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

19:20 Climate change: its impact on health and disease
Rachel Huxley (Melbourne, Australia)

19:35 Our patients and our planet: considerations for inhaler choice
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

19:50 Time to focus on green inhalers
Kai Michael Beeh (Wiesbaden, Germany)

20:00 Panel discussion

20:10 Summary & close
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

Channel 5. Session 499 19:15 - 20:15

Industry evening symposium: The cystic fibrosis research journey: a blueprint for other respiratory diseases?
Organised by Vertex Pharmaceuticals (Europe) Limited
Chairs: Francesco Blasi (Milan, Italy)

19:15 Welcome and introduction: advances in cystic fibrosis (CF) management
Francesco Blasi (Milan, Italy)

19:20 Three decades of research and innovation: what have we learnt?
Francesco Blasi (Milan, Italy)

19:30 Cystic fibrosis disease: the evolving natural history
Gregory Sawicki (Boston, United States of America)

19:45 Cystic fibrosis lungs: measuring what matters
Philipp Latzin (Bern, Switzerland)

19:55 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
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)
### 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**

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**

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**

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)

### Channel 4. Session 504 20:30 - 21:30

**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)

- **20:30** **Welcome and Introduction**
  - Alyn Hugh Morice (Cottingham, United Kingdom)

- **20:34** **Defining Chronic Cough and Its Burden of Disease on Patients**
  - Alyn Hugh Morice (Cottingham, United Kingdom)

- **20:42** **Mechanism of Chronic Cough**
  - Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)
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       | Peter Dicpinigaitis (New York, United States of America) | 5379 |
| 21:12 | Q&A and Panel Discussion                        | 5380 |
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