### Pre-congress content

#### Session

**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.

  - **Introduction and summary of online module**
    - Stefano Aliberti (Milano (MI), Italy)

  - **Adult learning theory: practical session**
    - Suzanne Schut (Maastricht, Netherlands)

  - **Teaching and learning**
    - Annie Noble (Bristol, United Kingdom)

  - **Break**

  - **Formative and summative assessment**
    - Robert Primhak (Sheffield (South Yorkshire), United Kingdom)

  - **Final comments and questions**

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### Pre-congress content

#### Session

**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.

  - **Welcome**
    - Gilbert Massard (Esch Sur Alzette, Luxembourg), Enrico Ruffini (Torino (TO), Italy)

  - **Introduction. Why should we publish?**
    - Enrico Ruffini (Torino (TO), Italy)

  - **Learn from errors exercise: group exercise**
    - Gilbert Massard (Esch Sur Alzette, Luxembourg), Enrico Ruffini (Torino (TO), Italy)

  - **Different types of articles**
    - Gilbert Massard (Esch Sur Alzette, Luxembourg)

  - **Cycle of a manuscript**
    - Gilbert Massard (Esch Sur Alzette, Luxembourg)

  - **Feedback and evaluation**
    - Enrico Ruffini (Torino (TO), Italy), Gilbert Massard (Esch Sur Alzette, Luxembourg)

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### Pre-congress content

#### Session

**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.

  - **Introduction: overview of leading and managing change**
Why change efforts might fail: what research tells us
Louellen N. Essex (Wayzata, United States of America)

Personal responses to change
Louellen N. Essex (Wayzata, United States of America)

The planned change process: steps and guidelines
Louellen N. Essex (Wayzata, United States of America)

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

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

Questions and answers
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content
Session 00:00 - 00:00
Professional development: How to deal with difficult people

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

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

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

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

Applying the communication approach to common difficult situations: case discussion in small groups
Louellen N. Essex (Wayzata, United States of America)

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

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

Questions and answers
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content
Session 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, Respiratory therapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

Introduction: Overview of why teamwork is essential to the delivery of good healthcare
Louellen N. Essex (Wayzata, United States of America)

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

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

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

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

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

**Aims:**
- 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

00:00  
Now it is not only about cigarettes: dual, triple, multiuse of nicotine and cannabis products. What to expect (focus on lung health)  
Charlotta Pisinger (Frederiksberg, Denmark)

00:00  
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?  
Speaker to be confirmed

00:00  
What we know and what we do not know about cannabis health effects: a concern for lung health?  
Ellen Burnham (Boulder, United States of America)

00:35  
Behind the scenes. The public health concerns of marijuana legalization; from production to marketing and recreational use  
Speaker to be confirmed

**Pre-congress content**

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

**Year in review: Clinical Year in review**

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

**Aims:**
- 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.

**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, Pathologist, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

00:00  
Diverging effects of premature birth and bronchopulmonary dysplasia on exercise capacity and physical activity: a case control study  
Speaker to be confirmed

00:25  
Physical activity and asthma development in childhood: prospective birth cohort study  
Marianne Eijkemans (Vught, Netherlands)

00:50  
Impaired pulmonary function and its association with clinical outcomes, exercise capacity and quality of life in children with congenital heart disease  
Pascal Amedro (Montpellier, France)

01:15  
Test-retest reliability, minimal detectable change and minimal clinically important differences in the modified shuttle walk test in children and adolescents with cystic fibrosis  
Tamara Del Corral Nuñez-Flores (Madrid, Spain)
**Aims:** To describe recent scientific advances in preterm, infant, childhood and adolescent/adult lung health and in two major lung diseases in adults and the elderly; to describe the impact of preterm and childhood events on lifelong lung health; to explain how diet, metabolism, genetics and the epigenome modulate asthma severity in childhood; to determine the contributions of lifestyle and environmental factors to the evolution of COPD; and to identify similarities in the mechanisms underlying lung cancer and idiopathic pulmonary fibrosis.

**Disease(s):** [Airway diseases](#) [Interstitial lung diseases](#) [Paediatric respiratory diseases](#)

**Tag(s):** Translational

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

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tr>
<td>00:00</td>
<td><strong>Preterm birth effects on future lung health</strong></td>
<td>Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)</td>
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<tr>
<td>00:25</td>
<td><strong>Lifelong effects of genetic lung diseases and their origins in childhood</strong></td>
<td>Mirjam Stahl (Berlin, Germany)</td>
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<tr>
<td>00:50</td>
<td><strong>Lifestyle, environmental and occupational effects on the teenage and adult lung</strong></td>
<td>Sukhwinder Singh Sohal (Launceston (TAS), Australia)</td>
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<tr>
<td>01:15</td>
<td><strong>The aging lung</strong></td>
<td>Silke Meiners (München, Germany)</td>
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### Pre-congress content Session 00:00 - 23:59

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

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

**Disease(s):** [Paediatric respiratory diseases](#)

**Tag(s):** Clinical

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

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<tr>
<th>Time</th>
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<tr>
<td>00:00</td>
<td><strong>Cellular mechanisms of paediatric lung disease</strong></td>
<td>Anne Hilgendorff (München, Germany)</td>
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<tr>
<td>00:25</td>
<td><strong>Cystic fibrosis and non-cystic fibrosis bronchiectasis</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>00:50</td>
<td><strong>Neonatology and intensive care</strong></td>
<td>Theodore Dassios (Beckenham (Kent), United Kingdom)</td>
</tr>
<tr>
<td>01:15</td>
<td><strong>Paediatric asthma</strong></td>
<td>Klaus Bonnelykke (Allerød, Denmark)</td>
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### Pre-congress content Session 00:00 - 23:59

**Expert view: Bronchoscopy interventions in ventilated patients**

Do invasive pulmonary interventions alter treatment of ventilated patients in the intensive care unit with consolidations?

**Aims:** To describe the specific risks associated with bronchoscopic interventions in ventilated critically ill patients; to assess methods available to obtain lung tissue samples from ventilated critically ill patients; and to determine categories of critically ill patients who may benefit from bronchoscopic 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

| Time  | Session                                                                                       | Speaker to be confirmed |
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 General respiratory patient care Imaging

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 (Rotselaar, Belgium)

Pre-congress content  Session  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)

Pre-congress content  Session  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 Pediatric respiratory diseases

Method(s): General respiratory patient care Public health

Tag(s): Clinical

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

00:00 Successfully managing adolescent and young adult patients with asthma

Graham Roberts (Southampton (Hampshire), United Kingdom)

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

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

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

Disease(s): Respiratory critical care

Method(s): Respiratory intensive care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Pediatrician, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Thoracic surgeon

00:00 Extracorporeal life support in lung failure and lung transplant bridging: when and how

Arne Neyrinck (Leuven, Belgium)
### Pre-congress content

**Session**

00:00 - 23:59

#### Expert view: Physiotherapy in chronic respiratory infections

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

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Respiratory physiotherapist, Journalist

00:00

**Physiotherapy in chronic respiratory infections**

Arietta Spinou (London, United Kingdom)

### Pre-congress content

**Session**

00:00 - 23:59

#### Expert view: Optimal treatment for multistage N2-disease

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

**Disease(s):** Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Pathologist, Radiologist, Thoracic oncologist, Thoracic surgeon

00:00

**The optimal treatment for multistage N2-disease**

### Pre-congress content

**Session**

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

**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)

00:00

**From life threatening to chronic connective tissue disease-associated interstitial lung disease: all you need to know**

Sonye Danoff (Baltimore, United States of America)

### Pre-congress content

**Session**

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
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<th>Session</th>
<th>00:00 - 23:59</th>
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<tr>
<td><strong>Pre-congress content</strong></td>
<td><strong>Session</strong></td>
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<tr>
<td>Treatment of pulmonary hypertension</td>
<td>Sean Gaine (Dublin, Ireland)</td>
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**Expert view: Transbronchial cryobiopsy in diffuse parenchymal lung diseases**

**Aims**: To evaluate appropriate biopsy methods for the diagnosis of interstitial lung diseases; to describe the risks of and indications for transbronchial cryobiopsy and to compare the safety and efficacy of this method with other biopsy methods (e.g., transbronchial biopsy with conventional forceps and surgical lung biopsy).

**Disease(s)**: Interstitial lung diseases  
**Tag(s)**: Clinical  
**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Pathologist, Physician in Pulmonary Training, Thoracic surgeon

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<tr>
<th>00:00</th>
<th>Transbronchial cryobiopsy in diffuse parenchymal lung diseases</th>
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<tr>
<td>Claudia Ravaglia (Forlì, Italy)</td>
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**Expert view: The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis**

**Aims**: To describe the use of high-resolution computed tomography (HRCT) in the multidisciplinary approach to patients with diffuse and interstitial lung disease; to describe characteristics on HRCT scans differentiating among definite usual interstitial pneumonia (UIP), probable UIP, indeterminate for UIP and an alternative diagnosis; to describe the role of HRCT in clinical decision making in patients suspected of having idiopathic pulmonary fibrosis (IPF) and to compare ATS/ERS/JRS/ALAT clinical guidelines with the Fleischner Society criteria for the diagnosis of IPF.

**Disease(s)**: Interstitial lung diseases  
**Method(s)**: Imaging  
**Tag(s)**: Clinical  
**Target audience**: Adult pulmonologist/Clinician, Pathologist, Radiologist

<table>
<thead>
<tr>
<th>00:00</th>
<th>The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis</th>
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<tr>
<td>Johny Verschakelen (Leuven, Belgium)</td>
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**Expert view: Managing stable, severe COPD**

**Aims**: To describe recommendations for management of patients with nonexacerbated but severe COPD, including the identification and reduction of risk factors; to describe pharmacologic and nonpharmacologic treatment modalities and their outcomes; to describe the use of step-up and step-down treatment approaches; and to emphasise the important role of evaluating and managing comorbidities, especially for cardiovascular diseases, as well as the use of polypharmacy, in patients with severe COPD.

**Disease(s)**: Airway diseases Respiratory critical care  
**Method(s)**: General respiratory patient care Palliative care Pulmonary rehabilitation  
**Tag(s)**: Clinical  
**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Journalist

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<thead>
<tr>
<th>00:00</th>
<th>Managing stable, severe COPD</th>
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<tr>
<td>Leonardo Michele Fabbri (Modena, Italy)</td>
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**Expert view: Common variable immunodeficiency (CVID)**

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<th>Common variable immunodeficiency (CVID)</th>
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<tr>
<td>Klaus Warnatz (Freiburg, Germany)</td>
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**Expert view: Gender-based differences in drug toxicity**

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<tr>
<td>Philippe Camus (Dijon, France)</td>
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<td>Expert view</td>
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<tr>
<td>Changing to Global Lung Function Initiative (GLI) reference will help my patient</td>
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<td>Brendan Cooper (Edgbaston (Birmingham), United Kingdom)</td>
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<td>Do we really need guidelines?</td>
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<td>Nicolas Roche (Paris, France)</td>
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<td>CRISPR for dummies</td>
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<td>Alen Faiz (Ultimo (NSW), Australia)</td>
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<tr>
<td>The role of patients in medicine</td>
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<td>Isabel Saraiva (Cascais, Portugal), Kjeld Hansen (Oslo, Norway)</td>
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<td>Genom revolution: Human Lung Cell Atlas</td>
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<td>DiscovAIR: Basic science - Human Lung Cell Atlas</td>
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<tr>
<td>Martijn C. Nawijn (Groningen, Netherlands)</td>
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<td>Microplastic in the lungs: should we be worried?</td>
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<td>Frank J. Kelly (London, United Kingdom)</td>
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<td>Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve</td>
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<td>Georgia Hardavella (Athens, Greece)</td>
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<td>Replacement of animal models in respiratory medicine</td>
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<td>Pieter S. Hiemstra (Leiden, Netherlands)</td>
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<tr>
<td>Preprints: growth and evolution in the medical publishing space</td>
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<td>Martin Kolb (Hamilton (ON), Canada)</td>
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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.
## Lung cancer or cancer of the lung: a view from the bridge
Pieter E. Postmus (LEIDEN, Netherlands)

### Pre-congress content

#### Expert view: Burning up while burning out: compassion fatigue awareness and burnout prevention for practitioners

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

#### Expert view: AI: are the doctors still needed?

00:00  **AI: are the doctors still needed?**
Speaker to be confirmed

#### Expert view: Challenge and success in a patient centered Clinical Research Collaboration

00:00  **Challenge and success in a patient centered Clinical Research Collaboration**
Dominique Hamerlijnck (Amsterdam, Netherlands), Ratko Djukanovic (Southampton (Hampshire), United Kingdom)

#### Expert view: Palliative care in tuberculosis

00:00  **Palliative care in tuberculosis**
Graham H. Bothamley (London, United Kingdom)

#### E-poster session: Non-invasive ventilation and nasal high flow: technical aspects and predictive scores

- **Disease(s):** Respiratory critical care, Sleep and breathing disorders, Airway diseases
- **Method(s):** Respiratory intensive care, General respiratory patient care, Pulmonary function testing, Physiology, Pulmonary rehabilitation, Imaging
- **Chairs:** João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Chair to be confirmed

**The Effectiveness of Disinfecting Wipes on the Mechanical Ventilator 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, Laurène Goument, Camille Germain, Julien Maris, Jorys Achar, 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.**
Cristina Lalmolda Puyol (Barcelona, Spain), Marta Corral, Ana Hernández Voth, Manel Luján, Javier Sayas
**EPAP variability during EFL Treatment 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 Dwarkanath (Wakefield (West Yorkshire), United Kingdom), Sanjay Bangad, Joseph Hogg, Husham Elfaki, Mohammed Khan, Anjali Gondker, Muthu Thirumaran, Salim Meghejee, 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, Eur-Sik Suh, Shelley Srivastava, Hina Pattani, Philip Marano, Patrick Murphy, Nicholas Hart, Georgios Kalskas

**The utility of HACOR score in predicting failure of High-flow nasal oxygen (HFNO) in acute hypoxemic respiratory failure.**
Ahmed Metwaly (Assuit, 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 Gonçalves, 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 Shrikrisna, 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 Gonçalves, 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 (AHRF): the usefulness of the standardised PaO2/FiO2 ratio (P/F-st).**
Giacomo Ghinassi (Italy), Antonietta Bandim, Uberto Maccari, Giuseppina Ciarleglio, Chiara Madioni, Valentina Granese, Laura Salerno, Maria Lucia Valentini, Elena Torricelli, Pietro Pirina, Raffaele Scala

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### Pre-congress content

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

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

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

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

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

**ERS-Survey 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

**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
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

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

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 Baerendsmaeker, Guy F. Joos

Physiologic and lung function outcomes of home mechanical ventilation in chronic hypercapnic COPD patients
Claudia Freitas (Vila Nova de Gaia, Portugal), Mariana Serino, David Araujo, Tiago Pinto, Miguel Goncalves, Mafalda Van Zeller, Marta Drummond

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

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

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

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

Relationship between renal correction with chronic respiratory acidosis and prognosis in patients with chronic respiratory failure
Tomomasa Tsboi (Joyo, Japan), Kenseke Sure, Atsuoe Saito, Takefumi Saito, Shohei Takata, Tetsuro Oheada, Tetsuji Kawamura, Toru Yamanaka, Masahiro Abe

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

Mouthpiece ventilation in stable COPD (Cases description)
Lucia Mendez Gonzalez (Santa Maria de Feira, Portugal), Cristina Alves, Susana Pereira, Iolanda Mota

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 Yiu, Thun How Ong, Leong Chai Leow

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

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

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

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

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

Home mechanical ventilation in chronic hypercapnic COPD patients: impact on acute exacerbations and survival
Claudia Freitas (Villa Nova da Gaia, Portugal), Mariana Serino, David Araujo, Tiago Pinto, Miguel Goncalves, Mafalda Van Zeller, Marta Drummond

Pre-congress content Session 00:00 – 23:59
E-poster session: Pulmonary function and rehabilitation in non-respiratory disease
**Disease(s)**: Respiratory critical care, Pulmonary vascular diseases, Airway diseases, Interstitial lung diseases, Sleep and breathing disorders, Thoracic oncology

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

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

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**Late Breaking Abstract - IMPACT OF CONFINEMENT ON ALS PATIENTS DUE TO THE SARS-CoV-2 PANDEMIC**
Cristina Gomez Rebollo (, Spain), María Melgar Herrero, Estefanía Mira Padilla, Cristina Villalba Moral, Cristina Muñoz Corroto, Natalia Pascual Martinez

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**Implication of regular pulmonary function evaluation in Duchenne muscular dystrophy**
Jang Woo Lee (Goyang-si, Republic of Korea), Han Eol Cho, Seong-Woong Kang, Justin Byun, Jong Weon Justin Lee, Won Ah Choi

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**Nutritional Parameters and Dyspnea Status in End-Stage Renal Disease Patients**
Ozge Aydin Guclu (Bursa, Turkey), Asli Gorek Dilektsali, Funda Coskun, Filiz Deveci, Hasim Atakan Erol, Mehmet Karadag

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**Ventilatory impairments associated with Parkinson’s Disease: a systematic review and meta-analysis**
Laura Lopez Lopez (Granada, Spain), Esther Prados Román, Irene Torres Sánchez, Natalia Muñoz Viguera, Irene Cabrera Martos, Marie Carmen Valenza

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**Assessment of clinical and instrumental efficacy of Expiratory Flow Accelerator technology in patients with Primary Ciliary Diskinesia.**
Silvano Dragonieri (Bari (BA), Italy), Alessia Masciave', Enza Pentassuglia, Paola Giordano, Luigi Mappi

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**The effects of core stabilization exercises on pulmonary function, functional capacity and peripheral muscle strength in children with adolescent idiopathic scoliosis.**
Sefa Yildirim (istanbul, Turkey), Semiramin Özylmaz, Nuh Mehmet Elmadağ

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**The “chronically critical ill” patient: characteristics of a population of patients admitted to a pulmonary rehabilitation unit**
Elisa Chellini (Firenze (FI), Italy), Barbara Lanini, Isabella Romagnoli, Barbara Binazzi, Luca Bianchi, Elena Lippi, Alessio Lazzeri, Silvia Campagnini, Andrea Mannini, Francesco Gigiotti

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**School children as change agent for early diagnosis, treatment and prevention of respiratory illness and diseases**
Fatema Zannat (, Bangladesh), Kazi Faisal Mahmud, Kazi Raiyan Mahmud, Mostafizur Rahman, Fatema Rafat, Kazi Faiyad Mahmud, Kazi Mahim Mahmud, Rumana Afroze, Nishat Jahan

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**Evaluation of respiratory impedance in patients with ankylosing spondylitis**
Geetanjali Bade (New Delhi (Delhi), India), Anjana Talwar, Anjali Trivedi, Asem Chau, Upinderpal Singh

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**Exercise rehabilitation in hemodialysis patients**
Yehia Yasseen Zakaria (Cairo, Egypt)

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**DIFFERENCES OF ANXIETY, DEPRESSION AND FUNCTIONAL CAPACITY BETWEEN PATIENTS WITH CARDIORESPIRATORY FAILURE WITH PARTIAL AND TOTAL ADHERENCE**
Viridiana Peláez-Hernández (Mexico City, Mexico), Diana Rosario Mireles-Sánchez, Laura Arel Martínez-Bautista, Karen Aide Santillan-Reyes, Karla Leticia Rosales Castillo

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**Cured pulmonary tuberculosis population: what is next?**
Susan Hanekom (Stellenbosch, South Africa), Kurt Daniels, Elvis Irusen, Hamilton Pharoa

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**Use of intrapulmonary percussive ventilation in children with chronic respiratory illness (CRI) treated at home.**
Adel Bougatief (San Antonio, United States of America), Kelly J. Smith, Rodney Gray, Guadalupe Martinez, Tarek Patel

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**Non-invasive ventilation post lung transplantation in a home setting**
Ana Raquel Magalhães (Lisboa, Portugal), Inês Moreira, Vânia Caldeira, Tiago Sá, Alexandra Borba, Paulo Calvinho, Luisa Semedo, João Carodos, José Fragata

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**Bedside evaluation of swallowing function in prolonged weaning patients. Significance of a targeted speech rehabilitation in weaning outcome.**
Anna Bartolini (, Italy), Guido Vagheggini, Eugenia Panait, Tommaso Solli, Tania Pacioni, Martina Salvini, Anna Zito

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**Prehabilitation can turn inoperable patients with NSCLC to operable ones?**
Kalliopi Athanassiadi (Athens, Greece), Dimitrios Magouliotis, Aikaterini Katsandi, Andreas Asimakos, Niki Giannou, Stylianos Kokorios, Pantelis Kourgiantakis, Eirini Batsaki, Foteini Domouchti, Spyridon Zakythinos
A novel mobile wearable system for providing real-time monitoring of respiratory pattern, thoracic motion, and SpO2 on a tablet PC: A feasibility study
Jun Ueki (Urayasu, Japan), Keiko Hino, Emika Sano, Megumi Ikeda, Masaya Yonezawa, Hiroshi Gyobu, Yuko Sano, Hiroo Wada

Portable oxygen concentrator versus oxygen cylinder in chronic lung disease: patient preferences and psychological implications
Mauro Maniscalco (Napoli (NA), Italy), Michele Martucci, Salvatore Fuschillo, Alberto De Felice, Pasquale Moretta, Antonio Molino, Michele Vitacca

Pre-congress content

Session 00:00 - 23:59

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

Disease(s): Airway diseases
Method(s): General respiratory patient care  Pulmonary function testing  Physiology  Epidemiology  Public health
Chairs: Clare Murray (Manchester, United Kingdom)

External validation of Asthma prediction tool in the French ELFE cohort
Sadia Khan (BORDEAUX Cedex, France), Bénédicte Leynaert, Steffi Rocchi, Jacques Deblic, Christophe Marguet, Antoine Deschilf, Emeline Scherer, Gabriel Reboux, Marie Christine Delmas, Marie-Noëlle Dufourg, Corinne Bois, Marie-Aline Charles, Amandine Divaret-Chauveau, Laurence Millon, Chantal Raherison

Identifying predictors for referral to a physiotherapy service for children with difficult asthma.
Charlotte Wells (Braintree, United Kingdom), Martin Cartwright, Shashivadan Hirani, Gemma Marsh, Pippa Hall, Angela Jamalzadeh, Samatha Sonnappa, Andy Bush, Louise Fleming, Segal Saglani

Risk factors in early school age children predict asthma in adulthood
Laura Healy (Manchester, United Kingdom), Angela Simpson, Clare S Murray, Gina Kerry, Lesley Lowe

Prevalence of and factors related to tobacco smoking in children with asthma
Hasan Yuksel (Manisa, Turkey), Adem Yaşar, Ahmet Türkeli, Canan Sule Kalkiner, Özge Yilmaz

Cardiopulmonary exercise testing in children with mild-moderate controlled asthma
Olga Lagiou (Patras, Greece), Dimosthenis Lykouras, Kiriakos Karkoulias, Sotiris Fouzas, Gabriel Dimitriou, Michael Anthracopoulos

Electronic monitoring of adherence to inhaled corticosteroids in preschool children with wheeze
Yvonne Bingham (London, United Kingdom), Louise Fleming, Nina Sanghani, James Cook, Pippa Hall, Angela Jamalzadeh, Rachael Moore-Crouch, Andrew Bush, Sejal Saglani

Empowering children with asthma: a framework for clinical practice based on a qualitative literature review
Lucy Gait (Liverpool, United Kingdom), Mel Longworth, Lynsey Brown, Victoria Worrall, Claire Hepworth, Neil Mingaud, Andrew Lilley, Philip Lawerence, Christopher Grime, Rebecca Thursfield, Calum Semple, Justus Simba, Ian Sinha

Feasibility of an exercise challenge test in a low-resource community settings to diagnose exercise-induced airway hyperresponsiveness in children
Mohammad Shahidul Islam (Edinburgh, United Kingdom), Steve Cunningham, Salahuddin Ahmed, Samin Huq, Lima Aktar, Ashraful Islam, Abdullah H Baqui, Aziz Sheikh, Samir K Saha, Harish Nair

Early prediction of childhood asthma exacerbations through a combination of statistical and machine learning approaches.
Aditya Nagori (New Delhi, India), Tavpritesh Sethi, Sushil Kumar Kabra, Rakesh Lodha, Anurag Agrawal

Remote monitoring of medication and lung function of asthmatic children
Chris Landon (Ventura, United States of America), Rajoshi Biswas, Emilie Paronyan, Kaitlyn Wallace, Hannah Wicklund

Prevalence trends of asthma, rhinoconjunctivitis and eczema in schoolchildren of Patras, Greece: six consecutive surveys between 1991 and 2018
Alexandros Ntzounas, Ioannis Giannakopoulos, Panagiotis Lambropoulos, Stella Malliori, Michael Anthracopoulos, Sotirios Fouzas

The impact of socio-economic deprivation on airway obstruction and inflammation in children with severe asthma: analysis of a tertiary regional clinic in the UK
Philip Lawrence (Liverpool (Merseyside), United Kingdom), Claire Hepworth, Neil Mingaud, Justus Simba, Ian Sinha

Multi-lingual mobile “Asthma App” to improve knowledge and understanding of asthma among First Nations people
Gabrielle McCallum (Darwin (NT), Australia), Lesley Versteegh, Sharon Chirgwin, Tony Sharma, Margaret Mcelrea, Anne Chang
**The burden of severe asthma in children and youths in Europe**

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

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**Pre-congress content**

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

**E-poster session: Determinants of chronic respiratory diseases**

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

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

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

- **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 Römmark

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

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

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

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

- **No increase in incidence of asthma among adults**
  Petri Raisänen (Lulea, Sweden), Helena Backman, Linnea Hedman, Martin Andersson, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Römmark

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

- **Long-term exposure to air pollution, road traffic noise and asthma incidence: the Danish Nurse Cohort**
  Shuo Liu (Shenyang, China), Jeanette Thermoing Jørgensen, Youn-Hee Lim, HERSHEY AMINI, AMAR Jayant Mehta, Laust Hvas Mortensen, RUDI GJ Westendorp, Marie Pedersen, Steffen Luft, Elvira Vaclavik Bräuner, Matthias Ketzel, Ole Hertel, Jørgen Brandt, Steen Solvang Jensen, Torben Sigsgaard, Claus Backalarz, Mette Kildervaeld Simonsen, Zorana Jovanovic Andersen

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

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

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

- **Age of onset of rhinitis as a determinant of different rhinitis phenotypes**
  Marine Savouré (Villejuif, France), Jean Bousquet, Marie Zins, Marcel Goldberg, Bénédicte Jacquemin, Rachel Nadif

- **The Czechia COPD mortality rate declining, but total deaths increasing**
  Vladimir Koblik (Hradec Králové, Czech Republic), Jiri Jarkovsky, Ladislav Dusek, Klara Benesova, Michal Svoboda, Kristian Brat
### Pet ownership and allergic sensitisation and asthma in childhood: findings from the EU Child Cohort Network

Angela Pinot de Moira (Copenhagen, Denmark), Katrine Strandberg-Larsen, Evelien Van Meel, Rosalie Mensink-Bout, Maja Popovic, Tim Cadman, Tiffany Yang, Johanna Thorbjergsrud Nader, Rachel Foong, Agnieszka Jankowska, Theodosia Salika, Costanza Pizzi, Demetris Avraam, Ahmed Elhakeem, Aitana Lertxundi, Maribel Casas, Ana Esplugues, Maria Estarlich, Jordi Sunyer, Debbie Lawlor, Jennifer Harris, Kinga Polańska, Barbara Heude, Rae-Chi Huang, Hazel Inskip, Vincent Jaddoe, Anne-Marie Nybo Andersen, Liesbeth Duijts

### Influence of agricultural and grey spaces proximity on biomarkers of exposure and effect: a population-based study

Sara Maio (Pisa (PI), Italy), Sandra Baldacci, Anna Angino, Eija Parmes, Juha Pärkkä, Giancarlo Pesce, Cara Nichole Maesano, Isabella Annesi-Maesano, Giovanni Viegi

### Life-course socioeconomic disadvantage and respiratory-related functioning lost in older adults: a multi-cohort study of 53 788 individuals

Vanícia Patricia Martins Rocha (Aveiro, Portugal), Silvia Fraga, Carla Moreira, Cristiano 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

Deeshaghorpade (Pune (Maharashtra), India), Jyoti Londhe, Sapna Madas, Nisha Kale, Arvinder Narula Pal Singh, Reshma Patil, Monica Barne, Prakash Doke, Sundeeep Salvi

### Acute effects of air pollution on urgent hospitalizations on a general population sample: a case-cross over study

Giovanni Viegi (Pisa (PI), Italy), Salvatore Fasola, Sara Maio, Sandra Baldacci, Claudio Gariazzo, Francesco Forastiere, Stefania La Grutta, Massimo Stafoggia, Beep Collaborative Group

### Pre-congress content

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<td><strong>E-poster session: Idiopathic pulmonary fibrosis and interstitial lung disease: progression, genes and more</strong></td>
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<td><strong>Disease(s):</strong></td>
<td>Interstitial lung diseases Airway diseases</td>
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<td><strong>Method(s):</strong></td>
<td>General respiratory patient care Cell and molecular biology Pulmonary function testing Epidemiology Endoscopy and interventional pulmonology Imaging</td>
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<td><strong>Chairs:</strong></td>
<td>Maria Molina Molina (Barcelona, Spain), Vincent Cottin (Lyon, France)</td>
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<td><strong>A cohort of patients with a progressive fibrosing phenotype of interstitial lung disease (PF-ILD) other than idiopathic pulmonary fibrosis (IPF): the PROGRESS study</strong></td>
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<td>Mouhamad Nasser (Bron, France), Sophie Larrieu, Salim Si-Mohamed, Kais Ahmad, Loïc Boussel, Marie Brevet, Lara Chalabreysse, Céline Fabre, Sébastien Marque, Didier Revel, Francoise Thivolet-Bejui, Julie Traclet, Sabrina Zeghmarr, Delphine Maucourt-Boulch, Vincent Cottin</td>
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<td><strong>Progressive fibrosing interstitial lung diseases (PF-ILDs): prevalence and characterization in two Italian referral centers</strong></td>
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<td>Paola Faverio (Limbiate (MI), Italy), Roberto Cassandro, Martina Piluso, Federica De Giacomi, Matteo Della Zoppa, Sergio Alfonso Harari, Fabrizio Luppi, Alberto Pesci</td>
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<td><strong>The incidence of Progressive Fibrotic Interstitial Lung Diseases (PFILD) treatable with oral-antifibrotic therapy in a UK Specialist Interstitial Lung Disease clinic.</strong></td>
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<td>Thomas Simpson (Richmond, United Kingdom), Alex West</td>
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<td><strong>Baseline CT thorax fibrosis using a cutoff of 10% alone does not portend a poorer prognosis in non-IPF ILD</strong></td>
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<td>Michelle Kan (Singapore, Singapore), Yi Hern Tan, Su Ying Low</td>
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<tr>
<td><strong>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</strong></td>
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<td>Mouhamad Nasser (Bron, France), Sophie Larrieu, Loïc Boussel, Salim Si-Mohamed, Fabienne Diaz, Sébastien Marque, Jacques Massol, Didier Revel, Francoise Thivolet-Bejui, Lara Chalabreysse, Delphine Maucourt-Boulch, Vincent Cottin</td>
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<td><strong>Serum KL-6 identifies ILD patients with a progressive fibrosing phenotype</strong></td>
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<td>Maria Kokosi (London, United Kingdom), Athina Trachalaki, Carmel Stock, Jackie Donovan, Elisa Tsioura, Vasilieos Kouranos, Peter M George, Phil L Molyneaux, Felix Chua, Toby M Maher, Elisabetta A Renzoni, Nikolaos Tzanakis, Athol U Wells, Katerina Antoniou</td>
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Telomere-Related Gene mutations in a Greek cohort of suspected monogenic pulmonary fibrosis patients

Study of IPF relatives as a method of early diagnosis of ILD disease
Olaia Bronte Moreno (Vitoria-Gasteiz, Spain), Myriam Aburto, Amaia Urrutia, Carmen Jaca, Maria Iciar Arrizubieta, Miren Begoñé Salinas, Laura Tomás, Iñaki Sálegui

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

A family history of ILD is a significant risk factor for worse transplant-free survival in IPF patients
Olaia Bronte Moreno (Vitoria-Gasteiz, Spain), Myriam Aburto, Amaia Urrutia, Carmen Jaca, Maria Iciar Arrizubieta, Miren Begoñé Salinas, Laura Tomás, Iñaki Sálegui

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 TGFβ 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
jiming 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
Panagiotis Benos (Pittsburgh, United States of America), Minxue Jia, Maria Kapetanaki, Tamara Cruz, Tracy Tabib, Ana Mora, Robert Lafyatis, Mauricio Rojas

Characterizing lung resident mesenchymal stem cells in idiopathic pulmonary fibrosis
Panagiotis Benos (Pittsburgh, United States of America), Minxue Jia, Maria Kapetanaki, Tamara Cruz, Tracy Tabib, Ana Mora, Robert Lafyatis, Mauricio Rojas

Pre-congress content

Session 00:00 - 23:59

E-poster session: Multidrug-resistant tuberculosis

Disease(s): Airway diseases

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

Chairs: Chair to be confirmed

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

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

Trends in tuberculosis notification and treatment in Georgia
Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Mamuka Chincharauli, Lali Mikiashvili
The risk of ineffective MDR/XDR TB treatment, based on bedaquilin: factors and their influence
Sergey Evgenievich Borisov (Moscow, Russian Federation), Alexy Filippov, Diana Ivanova, Taysia Ivanushkina, Evgeny Belilovsky

Time to detection of Mycobacterium tuberculosis on liquid media as reflection of initial bacterial load - population data from 6 sample regions of the Russian Federation
Grigory Kaminskii (Moscow, Russian Federation), Anna Panova, Elena Veselova, Igor Sherstnev, Irina Osintseva, Vadim Testov, Anastasia Samoilova, Irina Vasilyeva

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 Priyanka Chintha

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 Gumieniuk, Mykola Lynnyk, Galina Gumieniuk, Viktoria Ignatieva

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

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, Marriana 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, Elena Borisovna Vasilieva, Iulia Yarovaya, Ludmila Klochkova, Natalya Nikiforenko

Demographic characteristics of drug-resistant tuberculosis in the Russian Federation
Larisa Rusakova (Moscow, Russian Federation), Sergey Sterlikov, Atadjan Ergeshov, Yulia Mikhailova

Treatment outcome in patients with MDR-TB treated with bedaquiline containing regimens, Republic of Moldova
Dumitru Cheov (Chisinau, Republic of Moldova), Jan Heyckendorf, 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, Zarif F Udwadia

Pre-congress content

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

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

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

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**Bronchial asthma and pulmonary tuberculosis as a comorbid diseases**

Artjom Bogomolov (Vinnysia, Ukraine), Sergii Zaikov

**Comorbidome in multidrug-resistant tuberculosis patients**

Diana Ivanova (Varna, Bulgaria), 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, Berif 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 Gumieniuk, Oleksiy Denysov, Tetiana Sprytsian, 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 Žemaitis, Albinas 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, Nataliia 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 Zubair

**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 Gumieniuk, 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 Ruzanov

Social determinants and co-morbidities of patients with extensively drug resistant tuberculosis
Liubov Parolina (Moscow, Russian Federation), Olga Otpuschennykova, Natalya 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 (Genève, Switzerland)

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

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

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

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

- **Methods of bronchopleural fistulas prevention in MDR-, XDR TB patients after pneumonectomies**
  Alexander Bazhenov (Ekaterinburg, Russian Federation), Igor Motus, Petr Kholniy, Nataliya Raevskaya, Igor Medvinskiy, Dmiriy Kuznetsov

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

- **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

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

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

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

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

- **Barriers in accessing the specialised healthcare providers in homeless patients with tuberculosis**
  Andrei Ungurean (Chisinau, Republic of Moldova), Alina Malic, Evelina Lesnic

- **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

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

- **Delay in tuberculosis diagnosis and treatment in Bissau, Guinea-Bissau**
  Joelma Clotilde Costa Da Silva (Vila Nova de Gaia, Portugal), Emilia Marcelina Dos Santos, Dionisio Mendes, Raquel Duarte
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
Afroditi Boutou (Thessaloniki, Greece), Christos Karachristos, Pantelis Vlachogiannis, Christina Rampiadou, Helen Kerezidou, Dimosthenis Fletsios, Ilektra Karypidou, Maria Papatheanassiou, Anastasia Athanasiadou, Konstantina Nikolaou, Michael Agraftiotis, Evangelia Serasli, Adamantios Chloros

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

Cough improves earlier than sputum after treatment initiation in hospitalised patients with pulmonary tuberculosis
Kyohei Oishi (Shizuoka, Japan), Toshihiro Shirai, Taisuke Akamatsu, Hiromasa Nakayasu, Kanami Tamura, Toshihiro Masuda, Shingo Takahashi, Yuko Tanaka, Hirofumi Watanabe, Yutaro Kishimoto, Mika Saigusa, Akitoto Yamamoto, Satoru Morita, Kazuhiro Asada

Subclinical tuberculosis disease and its treatment outcomes: a prospective cohort study in South Korea
Jinsoo Min (Seoul, Republic of Korea), Chaek Chung, Sung Soo Jung, Hye Kyeong Park, Sung-Soon Lee, Ki Man Lee

Characteristics of younger versus elderly patients with pulmonary tuberculosis diagnosed at respiratory department
Ho Lam Nguyen (Hô Chi Minh, Vietnam)

Pre-congress content  Session 00:00 - 23:59
E-poster session: Diagnostic challenges in tuberculosis
Method(s): General respiratory patient care  Imaging  Endoscopy and interventional pulmonology  Cell and molecular biology  Respiratory intensive care  Pulmonary function testing  Epidemiology  Public health
Chairs: Daniela Maria Cirillo (Milano (MI), Italy), Lorenzo Guglielmetti (Paris, France)

Clinical profile and treatment outcomes of mediastinal lymph node TB: A prospective cohort study
Sryma P. B. (New Delhi, India), Karan Madan, Bijay Pattnaik, Saurabh Mittal, Pavan Tiwari, Anant Mohan, Vijay Hadda, Deepali Jain, Ravindra Pandey, Randeep Guleria

Diagnostic accuracy of TB PCR in mediastinal lymph node TB in a UK centre using EBUS-TBNA.
Mirae Park (London, United Kingdom), Kartik Kumar, Sean O'Riordan, Megan Coleman, Laura Martin, Georgina Russell, Giovanni Satta, Oun Min Kon

A retrospective evaluation of the management of ocular tuberculosis in Southampton
Sophie Knipe (Dorchester, United Kingdom), Ben Marshall

Evaluation of inflammatory mediators of pleural effusion in tuberculosis and non-tuberculosis patients
Neda Dalil Roofchayee (Tehran, Islamic Republic of Iran), Majid Marjani, Neda K. Dezfuli, Ian M. Adcock, Esmaeil Mortaz

Challenges of diagnosing tuberculous pleural effusion in children: a study of 135 cases
Elena Lupu (Chisinau, Republic of Moldova), Stela Kuleitkaia, Ewelina Lesnic

Endobronchial-ultrasound guided transbronchial needle aspiration (EBUS-TBNA) in Tuberculous mediastinal lymphadenopathy
Saurabh Mittal (New Delhi (Delhi), India), Karan Madan, Anant Mohan, Vijay Hadda, Pawan Tiwari, Randeep Guleria

Drug susceptibility pattern of Mycobacterium tuberculosis in adult patients with tuberculous pleural effusion
Syed Muhammad Zubair (Karachi, Pakistan), Muhammad Irfan, Ali Bin Sarar Zubairi, Kauser Jabeen, Rumina Hasan

Determining advantages and limitations of laser confocal microscopy for imaging M. tuberculosis in thick sections of lung tissues
Lepshka Larisa (Moscow, Russian Federation), Maria Erokhina, Elena Voronezhskaya, Vadim Avdienko, Atadzhan Ergeshov

Is smear microscopy obsolete in the era of Xpert MTB/RIF?
Barney Isaac (Vellore (Tamil Nadu), India), Devasahayam Christopher, Rajasekar Sekar, Balamugesh Thangakumar

Evaluation of DestiNA ‘spin-tube’ technology - a novel test for the diagnosis of tuberculosis and mycobacteriosis
Tatiana Smirnova (Moscow, Russian Federation), Sofya Andreevskaya, Elena Larionova, Irina Andrievskaya, Ekaterina Kiseleva, Larisa Chernousova, Atadzhan Ergeshov, Juan Diaz Mochon, Mayvis Trubee, Mario Antonio Fara, Antonio Martinez-Murcia, Adrian Garcia Sirera, Aaron Navarro Garcia, Riccardo Manganelli, Luisa Barzon, Alessandro Sinigaglia, Mark Bradley, Daniel Norman, Seshasailam Venkateswaran

Genetic risk score constituted by Toll-like receptor and matrix metalloproteinase single nucleotide polymorphisms helps predict tuberculosis status progression
Lun-Chen Chen (New Taipei City, Taiwan), Han-Ching Yang, Meng-Rui Lee, Jann-Yuan Wang, Jen-Chung Ko
Identification of cultures consisting of two species of mycobacteria from patients in the Russian Federation
Tatiana Smirnova (Moscow, Russian Federation), Atadzhan Ergeshov, Sofya Andreevskaia, Elena Larionova, Irina Andrievskaya, Ekaterina Kiseleva, Larisa Chernousova

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

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

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

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

Comparison of the results HRCT and SPECT with 99mTc-technethril in detection the tuberculosis process in children
Natalya Yukhimenko, Natalya Karpina, Rasul Amansakhedov, Andrey Perfiliev

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

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

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

Pre-congress content

Session 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 Antea, Alejando Rezola Carasusan, Valentin Cabriada Nuño

Evidence of Obstructive Sleep Apnea among First Nations People
Chandima Karunanayake (Saskatoon, Canada), James Dosman, Mark Fenton, Jeremy Seeseequasis, Kathleen Mcmullin, Malcolm King, Sylvia Abonyi, Vivian Ramsden, Donna Rennie, Shelley Krychuk, 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 Apnoea at Central Chest Institute of Thailand
Kanlaya Panjapornpong (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 Oke (Abakaliki, Nigeria), Chihurumnanya Alo

Obstructive Sleep Aapnea 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, Amanda Piper, Joerg Steier

Sleepy versus non-sleepy severe obstructive sleep apnea patients: Polysomnographic distinctions
Mónica Marques Grafino (Montemor-O-Novo, Portugal), Richard Staats, A Cristina Lutas, Teresa Pequito, Marco Pereira, Ana Ladeira, JoãoVALêncio, 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 Statthakis, Charalampous 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 Trent (Timisoara, Romania), Costela Serban, Roxana Plea, Iosif Marincu, 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, Charalampous Mermigkis, Christina Ermidou, Stylianos Michelakis, 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 Anevlagis, 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 Celejewksa-Wojcik, Marek Przybyszowski, Krzysztof Sladek

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, Ramchandran 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 Vijayasaratha (Chennai (Tamil Nadu), India), Shakhthipriya Nandakumar

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

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 Aichouia, 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 Lyall, Amit S Patel, Kai K Lee

Pre-congress content
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, Annelise Ovington, Amanda Robinson, Karen Kearley

Roles of PI3k pan-inhibitors and PI3k-d inhibitors in allergic lung inflammation: systematic review and a meta-analysis
Yong Chul Lee (Jeonju, Republic of Korea), Jong Seung Kim, Jae Seok Jeong, Sam Hyun Kwon, So Ri Kim
Type 2 inflammation-related comorbidities among patients with asthma, chronic rhinosinusitis with nasal polyps, and atopic dermatitis
Asif Khan (Chilly-Mazarin, France), Imène Gouia, Siddhesh Katam, 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 Katam

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. Padvor, Mario Castro, Nadia Daizadeh, Benjamin Ortiz, Robert Johnson, Yamo Deniz, Paul Rowe

Real-world adherence of subcutaneous (SCIT) and sublingual (SLIT) pollen AIT: A retrospective analysis in Germany
Christian Vogelberg (Dresden, Germany), Bernd Brueggenjuergen, Hartmut Richter, Marek 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 Zakrewski, Martyna Ciepielak, Aleksandra Cios, Weronika Urbanska, Jerzy Kruszewski, Wanda Stankiewicz, Andrzej Chciałowski

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

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.
Prasanth P (Amritsar (Punjab), India)

Allergy in patients with lymphangioleiomyomatosis
Elżbieta Radzikowska (Warszawa, Poland), Joanna Nowacka-Ejmont, Joanna Miłkowska-Dymanowska, Elżbieta Wiatr, Katarzyna Blasinska, Adriana Rozy, Miquel Angel Pujana

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

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

The impact of obesity in patients with severe asthma in the Wessex Severe Asthma Cohort (WSAC)
Lauren Fox (Southampton, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitashia 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 Arrobas, Ana Todo Bom, Carmelita Ribeiro, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo-Bom, Alberto Costa, Carlos Lozoya, Natacha Santos, Diana Silva, Luis Taborda-Barata, Rodrigo Rodrigues-Alves, Ana Sofia Moreira, Cláudia Sofia Pinto, Pedro Morais Silva, Carlos Alves, Raquel Câmara, Diana Bordalo, Ricardo Fernandes, Rosário Ferreira, José Ferraz De Oliveira, Fernando Menezes, Ricardo Gomes, Maria José Cálix, João Cardoso, Carlos Nunes, Rita Câmara, José Alberto Ferreira, Manuel Ferreira-Magalhães, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Dario Antolin-Amérgico, Belén De La Hoz Caballer, Alicia Barra Castro, David Gonzalez-De-Olano, João A. Fonseca
Effects of MACVIA-ARIA Sentinel Network for Allergic Rhinitis (MASK-Air) Mobile Phone Application on Asthma Control in Patients with Asthma
Müge Gencer (Istanbul, Turkey), Yavuz Havlucu, Deniz Kızıllumak, Arzu Yorgancıoğlu, Bilun Gemicioglu, Jean Bousquet

Pre-congress content
Session 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), Mahyar Aghapour (Magdeburg, Germany)

**Electronic cigarette liquids induce formation of tunnelling nanotubes in BEAS2B cells**
Mila Ljujic (Belgrade, Republic of Serbia), Aleksandra Divac Rankov, Sara Trifunovic

**Impact of particulate matter (PM) exposure on lung macrophage phenotype and phagocytic activity.**
Stephan Van Eeden (Vancouver (BC), Canada), Kei Yamashita, Beth Whalen

**Effects of volcanic fumaroles on large and distal airway epithelial homeostasis**
Elisabetta Pace (Palermo (PA), Italy), Dorian 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**
Bethan Mansfield (Cardiff (Wales), United Kingdom), Tzer-Ren Ho, Ian Mudway, Sebastian T Lugg, Chris J Corrigan, Jeremy P.T. Ward, David Thieckett, Zoe Prytherch, Simon Scofield, Paul J Kemp, Keir E Lewis, Luis A Mur, Catherine Hawrylowicz, Daniela Riccardi

**Effect of N-acetylcycteine loaded in biocompatible nanoparticle on lipopolysaccharide-induced acute lung injury model in rats**
Shin Young Kim (Seoul, Republic of Korea), Seongchan Kim, Seung Hoon Kim, Chi Hong Kim, Sung Kyoung Kim

**Exposure to textile microplastic fibers impairs epithelial growth**
Fransien van Dijk (Groningen, Netherlands), Gail Van Eck, Matthew Cole, Anna Salvati, Sophie Bos, Reinoud Gosens, Barbro Melgert

**Cytotoxic effect of vehicular PM metals Fe3+ & Zn2+ on lung epithelia**
Carly Woods (Paisley, United Kingdom), Gary Litherland, Andrew Hursthouse, Fionnuala Lundy, Gerard Sergeant, John Lockhart, Iain Mclellan

**Cigarette Smoke upregulates Notch1 signaling pathway in lung adenocarcinoma**
Giuseppina Chiappara (Palermo (PA), Italy), Claudia Sangiorgi, Caterina Di Sano, Claudia D'Anna, Serena Di Vincenzo, Giovanni Zito, Chiara Cipollina, Alessandro Bertani, Patrizio Vitulo, Elisabetta Pace

**Increased STIM1 expression induced by cigarette smoking extracts regulates the proliferation and production of inflammatory cytokines in human airway smooth muscle cells**
Jun Chen (China), 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, Hannelijn Smits, Pieter S. Hiemstra

**LSC - 2019 - Diesel exhaust particles alter mitochondrial bioenergetics in human bronchial epithelial cells**

**LSC - 2019 - Diesel Exhaust Particles-induced Dysfunctional Responses in Lung Epithelial Progenitors is mediated by oxidative stress**

**LSC - 2019 - Impact on pulmonary, intestinal and metabolic compartments of chronic smoking exposure and unhealthy diet: a functional and multi-omic approach**

**IgE-mediated Inflammatory response induced by Crotalus durissus venom in mice**
Ricardo Figueiredo (Feira De Santana (BA), Brazil), Marcos Lázaro Guerreiro, Natsaly 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), Jeun Park, Jisu Woo, Jiyeon Kim, Jongbae Heo, Chang-Hoon Lee, Seung-Mak Yi, Chul-Gyu Yoo

Cigarette smoke and TGF-ß 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 - 2019 - Cigarette smoke exposure disrupts the molecular regulation of mitochondrial metabolism in human bronchial and alveolar epithelial cells

Pre-congress content

Session 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, Physiology

Chairs: Jouni J.K. Jaakkola (Oulu, Finland), Chair to be confirmed

A cute cardiopulmonary responses to air pollution exposure during short controlled physical exercise in healthy males.
Krzysztof Kocot (Siewierz, Poland), Jan E. Zejda

Gene expression profiles of adult-onset asthma and idiopathic environmental intolerance related to damp and mouldy buildings
Hille Suojalehto (Helsinki, Finland), Joseph Ndika, Irmeli Lindström, Liisa Airaksinen, Kirsi Karvala, Piia Karisola, Harri Alenius

Effects of short-term exposures to ultrafine particles near an airport in healthy adults.
Ariana Lammers (Amsterdam, Netherlands), Nicole A H Janssen, A John F Boere, Marieke Berger, Cristina Longo, Susanne J H Vijverberg, Anne H Neerinxc, Anke-Hilse Maitland-Van Der Zee, Flemming R Cassee

Impact of air pollutant of polycyclic aromatic hydrocarbons (PAHs) on the yearly decline of pulmonary in patients with asthma
Chun-Hua Wang (Taipei, Taiwan), Yu-Chen Huang, Chon-Lin Lee, Kian Fan Chung

IgG, IgG1, and IgG4 sensitization to microbial extracellular vesicles in indoor dust ultrafine particles in Asthma, COPD and Lung cancer
Goohyeon Hong (Cheonan, Republic of Korea), Jinho Yang, Yoon-Seup Kim, Hochan Seo, Sungwon Kim, Andrea Mc Dowell, Won Hee Lee, Young-Koo Je, You-Young Kim, Yoon-Keun Kim

Early-life home environment related to incidence and remission of wheeze and rhinitis
Dan Norback (Uppsala, Sweden), Xin Zhang, Tian Li, Zefei Zhang, Liu Yang, Xingyi Chen, Zhaohua Zeng, Zhuohui Zhao

Visible moulds, smoking, rhinitis and asthma in adults: the EGEA study
Rachel Nadif (Villejuif, France), Laurent Orsi, Jean Bousquet, Bénédicte Jacquemin, Valérie Siroux, Maritta S. Jaakkola, Jouni J.K. Jaakkola, Bénédicte Leyeaft

Synergistic effect of mold and tobacco smoke exposure on adult-onset asthma
Jouni J.K. Jaakkola (Oulu, Finland), Rachel Nadif, Taina K. Lajunen, Maritta S. Jaakkola

A rapid test for environmental detection of pigeon antigen
Silvia Sánchez-Díez (Barcelona, Spain), Maria Jesús Cruz, Daniel Álvarez-Simon, Tomás Montalvo, Xavier Muñoz, Susana Gómez-Ollés

Relationship between ambient air pollution and lung function in a Canadian population: the CanCOLD cohort study
Dany Doiron (MONTREAL, Canada), Wan C. Tan, Sharmistha Biswas, Liesel Dsilva, Gilbert Nadeau, Shawn D. Aaron, Kenneth R. Chapman, Paul Hernandez, François Maltais, Darcy Marciniuk, Denis O’Donnell, Don D. Sin, Odette Allonby, Chris Compton, Bruce E. Miller, Jean Bourbeau

Influence of air pollution on hospital admissions in patients with COPD or asthma exacerbation.
Ana Cerezo Hernández (Valladolid, Spain), Daniel Alvarez Gonzalez, Raúl López Izquierdo, Fernando Moreno Torrero, Ana Gómez Garcia, Milko Daniel Terranova Rios, Carolina Andrea Urbina Carrera, Lucia Arroyo, Tomás Ruiz Albi, Andrea Crespo Sedano, Félix Del Campo Matías

Use of biomass cooking fuel and risk of respiratory symptoms and Acute Respiratory Infections in Ugandan children aged under 5 years: cross-sectional analysis
Katherine Woolley (Birmingham, United Kingdom), Vanessa Bagambe, Ajit Singh, William Avis, Shelton Mariga, Bruce Kirenga, Francis. D Pope, G. Neil Thomas, Suzanne Bartington
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<th>Title</th>
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<tr>
<td>Does parental or grandparental farm upbringing influence risk of asthma in offspring?</td>
<td>Signe Timm (Århus C, Denmark), Cecilie Svanes, Morten Frydenberg, Torben Sigsgaard, Mathias Holm, Christer Janson, Lennart Bräbäck, Brittany Campbell, Marie Kjer Madsen, Oskar Jogi, Rain Jogi, Linus Schiöler, Randi Jacobsen Bertelsen, Ane Johannesen, Jose Sanchez-Ramos, Jesus Martinez-Moretalla, Julia Dratva, Shyamali Dharmage, Vivi Schlünssen</td>
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<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 Grisson, Denitza Blagev</td>
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<td>Intrauterine and postnatal exposure to outdoor NO2 and lung function at school age</td>
<td>Ioar Rivas (Barcelona, Spain), Monica Guxens, Carmen Iturbe, Lucia Alonso, Marisa Estarlich, Mikel Basterrechea, Alicia Abellan, Judith Garcia-Aymerich, Carlos Zabaleta, Amparo Ferrero, Xavi Basaganya, Martine Vrijheid, Jordi Sunyer, Maribel Casas</td>
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<td>Workplace mold odor and renovations and the exacerbation of asthma in healthcare workers</td>
<td>Paul K. Hennberger (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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<td>The prevalence of childhood asthma and wheeze were effected by air pollutant concentration</td>
<td>Yoko Murakami (FUKUOKA, Japan), Hiroshi Odajima</td>
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<td>In allergic individuals, FENO50 is associated with O3 and PM10 during pollen season,</td>
<td>Hanne Krage Carlsen (Gothenburg, Sweden), Hatice Koca, Susanna Lohman-Haga, Anneli Behndig, Lars Modig, Anna-Carin Olén</td>
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### Pre-congress content

**Session: Novel findings in intensive care unit medicine: part 1**

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<th>Disease(s)</th>
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<td>Respiratory critical care, Airway diseases</td>
<td>Respiratory intensive care, General respiratory patient care, Imaging, Endoscopy and interventional pulmonology, Pulmonary rehabilitation, Cell and molecular biology, Epidemiology</td>
<td>Sarah Schwarz (Köln, Germany), Leo Heunks (Amsterdam, Netherlands)</td>
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#### Late Breaking Abstract: Aggravated pathology in MRSA pneumonia secondary to Influenza A virus infection diverged from decreased expression of IL-1B

Yunfeng Shi (China), Xiaohan Shi, Junhui Ba, Jingjing Liang, Jinmei Luo, Jianning Chen, Benquan Wu

#### 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 Rio Qroga

#### 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

#### Impact of early bronchoscopy in patients after out-of-hospital cardiac arrest

Jana Palm (Waldkraiburg, Germany), Anna Lena Lahmann, Anna Berkefeld, Friedhelm Peltz, Rainer Okrojek, Florian Weis, Arne Müller, Alexander Steger, Johannes Von Burstin, Hubert Hautmann, Gregor S. Zimmermann

#### Driving pressure variation in mechanical ventilation: Is it associated with ventilator associate events?

Huiqing Ge (Hangzhou (Zhejiang), China), Qing Pan, Ling Lin, Zhongheng Zhang

#### Diagnostic accuracy of drop-peroxide test to differentiate transudative and exudative pleural effusion

KOTTI PHANINDRA VASU (VISAKHPATNAM, India), K V V Vijaya Kumar, Gurram Rajyalakshmi, Chinthla L.N. Yamini Priyanka

#### The syndrome of respiratory failure in acute stroke patients.

Tatiana Kim (Moscow, Russian Federation), Alexander Chuchalin, Eugeniy Gusev, Michail Martynov, Ludmila Shogeno, Alexander Panin

#### Effects of nebulized acetylcysteine plus salbutamol on endotracheal tube secretions accumulation: sub-study of a randomized controlled trial

Lorenzo Ball (Genova (GE), Italy), Sophia Van Der Hoeven, Federico Costantino, David M Van Meenen, Paolo Pelosi, Ludo P Beenen, Marcus J Schultz, Frederique Paulus
Inappropriate Endotracheal Tube (ETT) cuff pressure and its relation to ventilator-associated pneumonia (VAP) in Intensive care unit (ICU).
Abdullah AlQahtani (Nottingham, United Kingdom)

Growing importance of Gram-negative isolates in respiratory samples
Cátia Caneiras (Lisboa, Portugal), Adriana Pedrosa, Cátia Caneiras

Bacteriological and clinical correlates of culture-positive parapneumonic community-acquired pleural infection
Marianthi Illiopoulou (Athens, Greece), Vasileios Skouras, Zoe Psaroudaki, Magda Makarona, Evangelos Vogiatzakis, Eleni Tsrolin , Elef Katsifa, Dionisios Spyritos, Dimitra Siopi, Ourania Kotsiou, Stelios Xitas, Efi Petinaki , Maria Martsooukou, Xanthi Tsiafaki , Vassiliki Filaditaki , Ioanna Sigala, Ioannis Kalomenidis

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

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 Zharikov

A comparison of empirical antibiotic treatment strategies for community-acquired pneumonia: A bayesian network meta-analysis
Jong Hoo Lee (Jeju, Republic of Korea), Jae-Uk Song

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 (Shenzhen (Guangdong), China), 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, Hisakos Matsumoto, Toyohiro Hirai

Pneumonia impact on the flow and the outcome at patients with seasonal influenza
Marija Cvetanovska (Skopje, North Macedonia), Zvonko Milenkovic , Krsto Grozdanovski, Ilir Demiri , Katerina Spasovska, Vlatko Cvetanovski

Community-acquired pneumonia associated with COPD : a special entity ?
Alia Ezzaouia (Tunis, Tunisia), Chrine Moussa, Houda Rouis, 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, Eloisa 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 pneumococci isolates in children in Moscow for 2010-2018
Anna Lazareva (Moscow, Russian Federation), Natalia Alyabyeva, Ekaterina Brzhozovskaya, Olga Shamina

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

E-poster session: New insight into the pathogenesis of chronic lung diseases: asthma, COPD and others
Disease(s): Airway diseases
Method(s): Cell and molecular biology Epidemiology Physiology General respiratory patient care
Chairs: Cecilia K. Andersson (London, United Kingdom), Hannu Kankaanranta (Seinäjoki, Finland)

Exercise moderates inflammation in asthma through increased redox buffering capacity
Anna Freeman (Southampton, United Kingdom), David Hill, Doria Cellura, Cosma Mirella Spalluto, Bernadette Fernandez, Magda Minnion, Helen Moyes, Martin Feilsich, 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 Darouei

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 Sverriild, 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, Tatiana 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 Sääholm, Craig E. Wheelock, Sven-Erik Dahlén, Gunnar Nilsson, Mikael Adner

IL13, IL31 and IL33 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), Kan Xu, Nan Wu, Zhihui Min, Zhihong Jiang

Mepolizumab decreases urinary excretion of LTE4 in severe asthma
Valentina 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)

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

Inhibition of Mast Cell Degranulation by Surfactant Protein D
Mohammad Leily (Southampton, United Kingdom), Patrick Trimby-Smith, Rose-Marie Mackay, Laurie Lau, Andrew Walls

Neutrophil-to-lymphocyte ratio in patients with bronchiectasis and its correlation with low-grade inflammation; preliminary results from a single tertiary center.
Pia Ghosh (Stockholm, Sweden), Ingrid Gerhardson, Barbro Dahlén, Apostolos Bossios

Allergen activates eosinophils of atopic bronchial asthma patients via IgE-mediated mechanism.
Rustem Fassakhov (Kazan (Republic of Tatarstan), Russian Federation), Sergei Boichuk

The influence of the allergen-specific immunotherapy (ASIT) against the backdrop of an immunomodulator in patients suffering from seasonal allergic rhinitis (SÅR) on the level of cytokines, IgE and IgG.
IELIENA KORETSKAIA (Kiev, Ukraine), Yevgeniya Dytvyatkovska

Roles of sensitization to Staphylococcal enterotoxin in patients with bronchiectasis
Chie Morimoto (Kyoto, Japan), Hisako Matsumoto, Tsuyoshi Oguma, Susumu Sato, Isao Ito, Mariko Kogo, Natsuko Nomura, Noriyuki Tashima, Hironobu Sunadome, Toyohiro Hirai

Development and characterisation of a multi-species COPD biofilm
Bryn Short (Glasgow, United Kingdom), Craig Williams, Gary Litherland, Fionnuala Lundy, William Mackay, Gordon Ramage

Protein expression of TRP channels in the esophagus of patients with gastroesophageal reflux (GER)-associated cough
Norihisa Takeda (Nagoya, Japan), Takashi Ueda, Jennifer Maries Go Yap, Hirono Nishiyama, Ryota Kurokawa, Kensuke Fukumitsu, Yoshihiro Kanemitsu, Eiji Kubota, Takeshi Kamiya, Masaya Takemura, Akio Niimi

Completed autophagy protected airway epithelial barrier from antigens stimulation
Zicong Zhou (Guangzhou, China), Changhui Yu, Xiaoai Cai

Photobiomodulation acting as an immunotherapeutic strategy for chronic obstructive diseases such as asthma and COPD
Auriléia Aparecida De Brito Léia (Vargem Grande Paulista, Brazil), Cristiano Rodrigo Alvarenga-Nascimento, Tawany Gonçalves Santos, Karine Zanela Herculano, Stephanie Soares, Renata Kelly Da Palma, Ana Paula Ligeiro-Oliveira
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
The impact of sensitization to Staphylococcus aureus–derived enterotoxins on allergic and respiratory disorders
Mario Olivieri (Verona (VR), Italy), Nicola Murgia, Nadia Antonucci, Pierpaolo Marchetti, Gianluca Spiteri, Marcello Ferrari, Giuseppe Verlato

Characteristics of new users of aclidinium, aclidinium/formoterol, and other COPD medications in three European countries
Cristina Rebordosa (Barcelona, Spain), Annalisa Rubino, Anna Julia Witzleb, Morten Olesen, Estel Plana, Jaume Aguado, Nuria Saigi, Sami Z Daoud, Alejandra Lei, Susana Perez-Gutthann, Tania Schink, Nina S Kristiansen, Anton Pottegard, Elena Rivero-Ferrero

Serum anti-Ascaris IgG concentration and lung function in a multi-centre Northern-European cohort
Nils Oskar Jogi (Tallinn, Estonia), Randi Jacobsen Bertelsen, Torgeir Storaas, Vivi Schlünssen, William Horsnell, Cecilie Svanes

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 Kaminskii, Irini 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-benz(a)pyrene diol epoxide (BPDE-DNA) and tobacco smoking as predictors of respiratory outcomes
Francesco Pistelli (Pisa (PI), Italy), Sara Maio, Sandra Baldacci, Laura Carrozzi, Giovanni Viegi

Associations between oscillometry parameters and respiratory outcomes in young children: the SEPAges cohort
Valerie Siroux (La Tronche, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoann Gioria, Rémy Slama, Isabelle Pin, Sam Bayat

Prevalence of Chlamydia pneumoniae antibodies in Southern Hungary
Dóra Paróczai (Deszk, Hungary), Dávid Kókai, Áron Ulbert, Gabriella Terhes, Katalin Burián

Pre-congress content

Session 00:00 - 23:59

E-poster session: Imaging-based phenotyping in pulmonary disease
Disease(s): Respiratory critical care Airway diseases Interstitial lung diseases Pulmonary vascular diseases Thoracic oncology
Method(s): Pulmonary function testing Imaging Physiology Endoscopy and interventional pulmonology General respiratory patient care Surgery Transplantation

Late Breaking Abstract - Chest radiography-a predictor of prognosis in COVID-19
Baranitharan Manoharan (Basildon, United Kingdom), Muhammad Shafiq, Alguili Elsheikh, Ujaas Dawar, Marcus Pittman

Randomized Phase III Trial Assessing Regional Lung Function for Thoracic Resection by Hyperpolarized 129Xenon Gas MRI
Yun Shin (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 O. Coxson, Miranda Kirby

Detection of fibrotic interstitial lung disease by bronchoscopic probe based Confocal Laser Endomicroscopy (pCLE)
Edith Silbernagel (München, Germany), Julien Dinkel, David Bondesson, Elvira Stacher-Priehse, Jürgen Behr, Wolfgang Gesierich, Frank Reichenberger

Randomized Phase III Trial Assessing Regional Lung Function for Lung Transplant by Hyperpolarized 129Xenon Gas MRI
Bastiaan Driehuys (United Kingdom), Jaime Mata, Matthew Hartwig, Alejandro Aragaki-Nakahodo, Ken West, Kiarash Emami, Neil Wadehra, Zackary Cleveland, Laura Walkup, Jason Woods, Alex Dusek, John Mugler, Yun Shin

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 Matsuo (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 Hailer, Thomas Koehler, Jens Von Berg, Klaus Jürgen Engel, Daniela Pfeiffer, Julia Herzen, Ernst Rummenny, 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 (South Yorkshire), United Kingdom), Madeleine Petersson Sjögren, Paul Hughes, Oliver Rodgers, Guilhem Collier, Graham Norquay, Lars Olsson, Per Wollmer, Jim Wild, Jakob Löndahl

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

Prospective Assessment of Collateral Ventilation using Chartis and Fissure Integrity by Quantitative Computed Tomography
Valentina Luzzi (Firenze (FI), Italy), Mauro Novali, Brian Armstrong, Michela Bezzi

Quantitative Assessment of Regional Compliance and Resistance in a Mouse Model of Emphysema with micro-Computed Tomography (micro-CT)
Marc Kaestle (Biberach an der Riß, Germany), Alexander Belekov, Helene Lichius, Matthew Thomas, Sorif Uddin

New method for quantification of ventilation and perfusion defects from functional lung MRI in children with Cystic fibrosis
Christoph Corin Willers (Bern, Switzerland), Kamal Shahim, Kathryn Ramsey, Philipp Latzin

Pre-congress content

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 (Edinburgh), United Kingdom), Stefan A. Mihaicuta (Timisoara (Timis), Romania)

Validation of names-bg score in screening of patients with obstructive sleep apnea
Heba Gharraf (Alexandria, Egypt), Ayman Baess

Comparison between Level 3 Sleep Study and Peripheral Arterial Tonometry for Sleep Apnea (SA) diagnosis
Frédéric Mathias de Oliveira (Póvoa de Varzim, Portugal), Analine Moura, Carla Vieira, Elsa Miranda, Pedro Martins, Margarida Dias, Nuno Cortesão

Prospective validation of a Bayesian network model in the diagnosis of Obstructive Sleep Apnea: preliminary results
Pedro Amorim (Porto, Portugal), Daniela Ferreira-Santos, Marta Drummond, Pedro Pereira Rodrigues

A comparison of automated and manual sleep staging and respiratory event recognition in a portable sleep diagnostic device with in-lab sleep study
Hartmut Schneider (Lutherville, United States of America), Zhigang Zhang, Alan Schwartz
The expression of sleep apnea severity and central related sleep apnea in ECG-based cardiopulmonary coupling
Zhiling Zhao (Beijing, China), Xiheng Guo

Variability of OSA severity classification between two multiple-night sleep studies
Charlotte Wigston (Oxford (Oxfordshire), United Kingdom), John Stradling, Chris Turnbull

Weighted Epworth sleepiness scale predicted the apnea-hypopnea index better
Qi Guo (Shenzhen (Guangdong), China), Wei-Dong Song, Wei Li, Chao Zeng, Yan-Hong Li, Jian-Ming Mo, Zhong-Dong Lü, Mei Jiang

Deep Breathing Test Can Help To Identify Subjects With Obstructive Sleep Apnea
Elisa Perger (Brescia (BS), Italy), MWETTY ONANGA, Caroline Sevoz-Couche, Stefania Redolfi

Predictive ability of NOSS score and STOPBANG score in identifying Obstructive Sleep Apnea
Vulli Venkatesh (Vizianagaram, India), Akula Anusha, Jana Kundan Raja

Knowledge of sleep disorders among physicians at a tertiary care hospital in Qatar
Irfan Ul Haq (Doha, Qatar), Mansoor Ali Hameed, Abbas Abdallah Alabbars, Shakeel Ahmed, Khezar Shahzada Syed, Merlin Marry Thomas, Muthuq Ahmad

Knowledge and attitude of obstructive sleep apnoea among junior doctors
Suman Banerjee (Bankura, India), Susmita Kundu, Rivu Basu

Screening for obstructive sleep apnea (OSA) in acromegaly
Cinzia Arena (Catania, Italy), Martina Tubiolo, Valentina Guarnotta, Carla Giordano, Maria Rosaria Bonsignore

Impulse oscillometry for evaluating apnea, hypopnea and desaturation severity in patients with suspected Obstructive Sleep Apnea - pilot study
David Jorge Araujo Barros Coelho (Braga, Portugal), Ricardo Estêvao Gomes, Pedro Amorim, Marta Drummond

Do not go with just the flow: machine learning in oximetric versus flow-based sleep apnoea scoring
Neil Skjoldt (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 Braghirioli (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 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)

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, Flaminio Mormile

NREM sleep stages are associated with A842 and Tau in Obstructive Sleep Apnea.
Yi-Shin Liu (Taipei (Taipei), Wen-Te Liu, Shang-Yang Lin, Shu-Chuan Ho

NoSAS: a possible screening questionnaire in patients with OSA and comorbidities
Elisa Morrone (Pavia (PV), 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, Hassan, Chebbi Riheb, Hasnaoui Mohamed Taha, Nimesh Elaa, Ben Romdhane Raja, Ben Rhouma Chaima, Bouchnak Iskander, Knani Jalel, Boussoflara 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, Dhruva Chaudhry

Role of overnight pulse oximetry as screening tool for sleep disordered breathing in pregnancy
Dhruva 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 antropological and behavioural factors are influencing the tracheal diameter?
Laura Ciobanu (Iasi (Iasi), Romania), Mostafa Shahin, Abeer Allhadi

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 Manfield, 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 life
Alessandra Angelucci (Milano, Italy), David Kuller, Andrea Alverti

Agreement between different oximetric sensors during exercise in chronic respiratory diseases: a pilot study.
Brenda Elena Varela (Ciudad Autónoma Buenos Aires, Argentina), Gonzalez Manuel Castaño, Maria Paz Menéndez, Patricia Mabel Ibáñez, Anabella 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, Yuriko Horikawa, Yuriko Ueki, Hiroki Takumida, Hirokazu Ara, Hiromu Watanabe, Yusaku Kusaba, Takashi Katsuno, Shuichiro Matsumoto, Tamaki Kakuwa, Yoshie Tsujimoto, Keita Sakamoto, Masao Hashimoto, Satoru Ishii, Junko Terada, Jin Takasaki, Go Naka, Motoyo Iikura, Shinya Izumi, Yuihiro Takeda, Masayuki Hojo, 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 Tinedo, Daniel López-Padilla, Christian Castro Riera, Elena Ojeda Castillejo, Soledad López Martin, Francisco José Caballero Segura, Luis Puente Maestu

Pre-congress content

Session 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), Amaia Urrutia Gajate, Elena Garay Llorente, Joseba Andia Iturrate, Leyre Serrano Fernandez, Marta Garcia Moyano, Beatriz Gonzalez Quero, Valentin Cabriada Nuño

Usefulness of transcutaneous capnography to evaluate nocturnal hypventilation in patients with obesity hypventilation syndrome treated by non-invasive ventilation at home
Thomas Georges (Bois Grenier, 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 (Pontedvedra, Spain), Tania Rivera Baltanás, Mar Mosteiro Añón, Jessica Iglesias Novas, Helena Santamaría Lopez, Johanny 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 Thuissard Vasallo, David García Gómez, Araceli Abad Fernández

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
Ouralia Kotsiou (Larissa, Greece), Dimitri Siachpazidou, Chaido Pastaka, Chrissi Hatzoglou, Maria Kechagia, Vasileios Stavrou, Eufokia Gogou, Charalampous Varsamas, Nicholas-Tiberio Economou, George Seitandis, Konstantinos Gourgoulianis

Kalix® in the treatment of Obstructive Sleep Apnea-Hypopnea syndrome (OSAHS).
Soha Esmaili (, Spain), Gianna Vargas Centanaro, Juan Luis Rodríguez Hermosa, Jose Luis Álvarez-Sala, Nada Raissouni, Myriam Calle Rubio

Effect of CPAP adherence on depression in OSA patient
Diana-Raluca Velescu (Timisoara (Timis), Romania), Monica Marc, Daniel Trăiilă, 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 Dingemanse

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 Fatollahi

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?
Shubham Sharma (Jaipur (Rajasthan), India), Tarang Kulkarni, Sovan Kanti Chakraborty, Milind Sovani, Raja Dhar

Effect of Short Term Use of PAP Treatment on Metabolic Parameters in Patients with Obstructive Sleep Apnea
Nazih Deniz Atik (IZMIR, Turkey), Sezai Taşbakan, Özen Kaçmaz Başoğlu

Pre-congress content Session 00:00 - 23:59
E-poster session: Advance in treatments for sleep and breathing disorders and long-term adherence
Disease(s): Sleep and breathing disorders
Method(s): Epidemiology  General respiratory patient care  Imaging  Public health  Pulmonary rehabilitation  Physiology
Chairs: Jean-Louis Pépin (Grenoble, France), Dries Testelmans (Leuven, Belgium)

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

Bone metabolism in OSA patients and the effect of one year treatment with non-invasive ventilation
Daniela Krasimirova (Sofia, Bulgaria), Daniela Petrova, Ognian Georgiev, Radoslav Bilyukov, Tsanko Mondeshki, Ventsislava Pencheva, Sevda Naydenska, Martin Nikolov, Petko Shoshkov

Risk factors for non-compliance with continuous positive airway pressure therapy in patients with obstructive sleep apnea and paroxysmal atrial fibrillation
Gunn Marit Traaen (Oslo, Norway), Maria Kristina Vik-Strandli, Britt Øverland, Lars Aakerøy, Tove-Elizabeth Hunt, Christina Bendz, Nina Bredesen, Lars Øivind Sande, Svend Aakhus, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Jan Pål Loennechen, Harriet Akre, Lars Gullestad

Telecoaching to improve physical activity in patients with obstructive sleep apnea treated with CPAP
Bart Vrijsen (Linkhout, Belgium), Thierry Troosters, Bertien Buyse, Pham Anh Hong Nguyen, Dries Testelmans

A comparison of sleep disordered breathing events detected by CPAP devices with in-lab polysomnography
Georg Nilius (Dortmund, Germany), Maik Schroeder, Ulrike Domanski, Matthias Richter

The frequency of medical co-morbidities and their impact on adherence to upper airway stimulation for obstructive sleep apnea.
Patrick Strollo (Pittsburgh, United States of America), Ryan Soose, Clemens Heiser, Armin Steffen, Joachim Maurer, Olivier Vanderveken

Prevalence and determinants of residual excessive daytime sleepiness (RES) in patients treated with continuous positive airway pressure (CPAP) for obstructive sleep apnea (OSA).
Renaud Tamisier (Grenoble, France), Jessica Richoux, Sébastien Bailly, Sébastien Baillieu, Rita Guzun, Marie Destors, Jean Louis Pépin

Effects of shifts between nasal- and oronasal masks on positive airway pressure adherence: analysis of a German healthcare provider database
Michael Arzt (Regensburg, Germany), Christoph Schoebel, Joachim H Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Holger Woehrle

Blood pressure reduction following treatment with positive airway pressure in sleep apnea - data from the ESADA
Ludger Grote (Göteborg, Sweden), Sven Svedmyr, Jan Hedner, Ding Zou, Sebastien Bailly, Carolina Lombardi, Ondrej Ludka, Marisa Bonsignore, Jean-Lois Pépin, Sofia Schiza, John Arthur Kvamme, Ozen K. Basoglu, Johan Verbraecken

Impact of different positive airway pressure-therapy care models on longer-term therapy termination rates
Holger Woehrle (Ulm, Germany), Jochen Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Christoph Schoebel, Michael Arzt

CPAP treatment increases anxiety in coronary artery disease patients with nonsleepy obstructive sleep apnoea: The RICCADSA randomized controlled trial
Yeliz Çelik (İstanbul, Turkey), Erik Thunström, Patrick J Strollo, Yüksel Peker

Negative Affectivity and Social Inhibition influences adherence to positive pressure treatment in patients with sleep respiratory disorders
Sebastian Rodriguez-Llamazares (Ciudad de México, Mexico), Margarita Reyes-Zúñiga, Yadira Rodríguez-Reyez, Juan Sebastián Reyes-Silva, Selene Guerrero-Zúñiga
High flow-nasal cannula oxygen treatment in patients with concomitant severe chronic obstructive pulmonary diseases and mild-moderate sleep apnea (overlap syndrome).
Lucia Spicuzza (Sant’Agata Li Battiati (CT), Italy), Raffaele Campisi, Claudia Crimi, Stefano Alia, Marialuisa Giuffrida, Nunzio Crimi

Effects of positive airway pressure (PAP) modalities on central apnea and crackles in heart failure
Maree Milross (Sydney, Australia), Mark Norman, Michael Wilson, Gary Baker, Colin Sullivan

Acetazolamide is effective treatment of Cheyne-Stokes respiration in patients with chronic heart failure
Alexander Palman (Moscow, Russian Federation), Mariya Poltavskaya, Kliya Sorokina

Treatment of patients with central and sleep-disordered breathing with adaptive servo-ventilation (ASV): the READ-ASV registry
Michael Arzt (Regensburg, Germany), Oliver Munt, Holger Woehrle, Raphael Heinzer, Adam Benjafeld, Jean-Louis Pepin

The role of positive airway pressure treatment for Obstructive Sleep Apnea in Pulmonary Embolism
Joana Patricia Almeida Borges (Coimbra, Portugal), Fátima Fradinho

Effect of continuous positive airway pressure in patients with paroxysmal atrial fibrillation and obstructive sleep apnea
Gunn Marit Traaen (Oslo, Norway), Lars Aakerøy, Tove-Elizabeth Hunt, Britt Øverland, Christina Bendz, Nina Bredesen, Lars Øivind Sande, Svend Aakhus, Hasse Zare, Morten Fagerland, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Harriet Aakre, Jan Pål Loennechen, Lars Gullesstad

Pre-congress content

E-poster session: Phenotyping sleep-disordered breathing and its impact on various 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 Ceveró Rubio, Enrique Zaldivar Olmeda, Tomas Posadas Blázquez, Maria Jose Selma Ferrer, David Jimenez Castro, Miguel Angel Martinez Garcia

Changes in the difference between subjective and objective sleep duration according to sleep duration or sleep disordered breathing: The Nagahama Study
Naomi Takahashi (Kyoto, Japan), Takeshi Matsumoto, Yoshinari Nakatsuka, Kimihiko Murase, Yasuharu Tabara, Hirofumi Takeyama, Takuma Minami, Satoshi Hamada, Osamu Kanai, Kiminobu Tanizawa, Isuzu Nakamoto, Alba Ceveró Rubio, Enrique Zaldivar Olmeda, Tomas Posadas Blázquez, Maria Jose Selma Ferrer, David Jimenez Castro, Miguel Angel Martinez Garcia

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 Sprefaco, 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

OSA management in Europe – A 10-year ESADA follow-up

Peripheral arterial tonometry versus polysomnography in suspected obstructive sleep apnea
Matthias Herrmann (Basel, Switzerland), Simon Veitz, Desiree Schumann, Werner Strobel, Michael Tamm, Daiana Stolz
Impact of cardiac sympathetic denervation on IH-induced ischemic cardiomyopathy aggravation
Maximin Détrait (La Tronche, France), Jonathan Gaucher, Sophie Bouyon, Jean-Louis Pepin, Elise Belaidi, Claire Arnaud

Pulse wave analysis for recognition of cardiovascular risk in sleep apnea patients
Christian 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 (Zurich, 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 Driendl (Regensburg, Germany), Michael Arzt, Claudia S. Zimmermann, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Stadler

A novel multicomponent grading system for obstructive sleep apnoea severity applied in the ESADA cohort
Simon Dominik Herkenrath (Köln, Germany), Winfried Randerath, Marcel Treml, Ludger Grote, Jan Hedner, Maria R Bonsignore, Jean-Louis Pépin, Silke Ryan, Sofia Schiza, Johan Verbraecken, Walter T McNicholas, Athanasia Pataka, Pawel Sliwinski, Ozen K Basoglu

A complex network approach for gender phenotyping of patients with obstructive sleep apnea syndrome
Stefan A. Mihaicuta (Timisoara (Timis), Romania), Alexandru Topirceanu, Mihaí 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 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)

The role of hepcidin in early diagnostic of atherosclerosis in OSA
Ventislava Pencheva Genova (Sofia, Bulgaria), Viktor Manolov, Ognian Georgiev, Vasko Vasilev, Radoslava Emilova, Irena Petrova, Savina Hadjidaskova, Marieta Karadzova, M Nikolaov, Georgi Angov, I Petrova-Ivanova, Todor Kunchev, Kamen Tzatchev, Latchezar Traykov

PERIPHERAL ARTERIAL TONOMETRY AND INTIMA MEDIA THICKNESS IN OBSTRUCTIVE SLEEP APNEA.
Javier Errasti Viader (Pamplona (Navarra), Spain), Maria Teresa Martín Carpi, Jose Maria Marín Trigo, Victoria Gil, Raquel Langarita

The clinical significance nocturnal hypoventilation (NH) in patients with severe obstructive sleep apnoea (OSA)
Shirley Coelho (Viana do Castelo, Portugal), Richard Glover, Alain Al Helou, Mindi Daniels, Vicky Moore, Rahul Mukherjee

Is there a relationship between sleep apnea and microalbuminuria?
Melek Cihanbeylerden (Ankara, Turkey), Melike Bağnu Yüceği, Bahar Kurt

A automated office blood pressure measurement increases prevalence of masked hypertension in patients with obstructive sleep apnoea
Milan Sova (Olomouc, Czech Republic), Samuel Genzor, Eliska Sovova, Marketa Sovova, Katarina Moravcova, Shayan Nadjarpour

Optic Nerve Dysfunction in Obstructive Sleep Apnoea-Hypopnoea Syndrome
Teresa Diaz De Teran Lopez (Santander, Spain), Mónica González, Alfonso Casado, Claudia Nebot, Kimberley Lee, Alicia Lopez De Eguileta, Fabiola Escobar, Marta Cabello, Juan José Ruiz, Marián Martínez, Soraya Fonseca, Carlos Queipo
Cardiovascular comorbidity by clinical phenotypes of obstructive sleep apnea and sleeping hours
Marta Plana Pes (Cardedeu, Spain), Eric Rojas Calvera, Anna Torrente Nieto, Anton Obrador Legares, Immaculada Dagá, Mercé Salvans Sagué, Emili Marco Segarra, Xavier Espuña Capote, Daniela Soledad Torres Scianca, Susana Mota Casals, Marc Comas Culli, Rafel Ramos Blanes, Ramon Ohrriols Martinez

Is Obstructive Sleep Apnea a risk factor for Gestational Diabetes?
Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mocharles, Caterina Ribot Quetglas, Maria Barceló Nicolau, Ainhoa Alvarez Ruiz De Larriaga, Antònia Barceló Bennasar, Amanda Iglesias Coma, Daniel Morell Garcia, Mónica De La Peña Bravo, José Antoio Peña Zarza, Margarita Bosch Artigues, María Paloma Giménez Carrero, Joaquín Durán Cantolla, José María Marín Trigo, Mercedes Codina Marcet, Paula Rodriguez Rodriguez, Carla Pia Martinez, Maria Concepción Piñeras Cebrían, Andrés Sánchez Barón, Alberto Alonso Fernández, Francisco García Río

Renal function impairment and prediction of sleep apnea in patients with high cardiovascular risk
Roxana Maria Pleava (Timisoara (Timis), Romania), Stefan Frent, Carmen Ardelean, Svetlana Mosteuro, Dan Gaita, Stefan Mihaicuta

Sleep Disordered Breathing association with cardiovascular disease in the French general population
Pauline BALAGNY (Paris, France), Emmanuel Wernik, Joanne Matta, Justine Frija-Masson, Emmanuelle Vidal-Petiot, Philippe Gabriel Steg, Céline Ribet, Marcel Goldberg, Marie Zins, Marie-Pia D'Ortho

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

High CRP plasma levels in OSA patients correlate with high Pichot fatigue scale score
Nikolay Evgeniev (Ruse, Bulgaria), Rumelia Nikolaeva, Nikolay Donev

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 Tlii, Hana Blibeck, Jalloul Daghfous, Youssef Ben Ameur, Nozha Ben Salah, Nadia Mhiri, Bechir Louzir

Prevalence of gastroesophageal reflux symptoms in obstructive sleep apnea
Stefano Pini (Italy), Maurizio Rizzi, Marina Saad, Paolo Gaboardi, 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 Taalberg, Kettlin Veevál, Ragne Tammi, Triin Laurits, Birgit Ahas, Martin Juss, Tuulika Hion, Roman Pihlakas, Kalle Kilik, Ursel Soomets, Alan Altraja

Relationship between obstructive sleep apnea and human leukocyte antigen variants
Ayse Gul Zamani (Konya, Turkey), Sebnem Yosunkaya, Adil Zamani, Hulya Vatansev, Selman Yildirim

Metabolic syndrome in moderate to severe obstructive sleep apnea?
Hana Mrassi (Tunis, Tunisia), Samira Mhamdi, Zayen Khalil, Islam Mejri, Mohsen Khadrhaoui

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

Pre-congress content

E-poster session: From pathophysiology to clinical consequences of sleep and breathing disorders
Disease(s): Sleep and breathing disorders, Respiratory critical care
Method(s): Physiology, General respiratory patient care, Respiratory intensive care, Surgery, Cell and molecular biology, Epidemiology
Chairs: Andrea Crespo Sedano (Valladolid, Spain)

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 Floechinger, Daniele Camboni, Marcus Creutzenberg, Florian Zeman, Christof Schmid, Lars S. Maier, Stefan Wagner, Michael Arzt

Sleep perception in obstructive sleep apnea: Is it worth to ask?
Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Lopes Figueiredo, Mariana Calheiros Cabral, Maria Alexandra Mineiro, Ricardo Luiz De Menezes Duarte, João Almeida Cardoso, Flávio José Magalhães Da Silveira
Performance of Brief ICF-Sleep Disorders and Obesity Core Set in OSA Patients
Liang Xie (Shanghai, China), Shanqun Li

Association between sleep hours and cardiovascular-cerebrovascular morbidity, mortality and cancer

Influence of Obstructive Sleep Apnea on systemic inflammation in pregnancy
Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mochales, Caterina Ribot Quetglas, Maria Barceló Nicolau, Ainhou Alvarez Ruiz De Larriaga, Antonia Barceló Bensasar, Amanda Iglesias Coma, Daniel Morell Garcia, Monica De La Peña Bravo, José Antonio Peña Zarza, Margarita Bosch Artigues, Maria Paloma Giménez Carrero, Joaquin Durán Cantolla, José Maria Marín Trigo, Mercedes Codina Marce, 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, Polliana Santos, Renan Marinho, Audrey Borghi-Silva

Structural cardiac changes during REM and non-REM sleep in patients with myocardial infarction.
Elvira Bondia Real (Valencia, Spain), Jose Gavara, César Navarro, Vicente Bodí, Maria Pilar Bañuls, Paolo Racugno, Maria Pilar López-Lereu, Jose Vicente Momeneu, Claudia Heras, Jaime Signes

Echocardiography findings in patients with obstructive sleep apnea syndrome
Touil Imen (Mahdia, Tunisia), Keskes Boudawara Nadia, Bouchareb Soumaya, Ibn Hadj Amor Hassen, Chebbi Riheb, Hasnaoui Mohamed Taher, Ben Rhouna Chaima, Nemsi Elaa, Rodmhani Raja, Bouchnak Iskander, Knani Jalel, Boussofara Leila

Evaluation of the executive functions of the brain in adult patients with obstructive sleep apnea syndrome
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Chaido Pastaka, Nicholas-Tiberio Economou, Chrissi Hatzoglou, Vasileios Stavrou, Evdokia Gogou, Charalampos Varsamas, George Seitannis, Konstantinos Gourgoulianis

Sleep-induced HRV changes and OSA in the ESADA cohort
Carolina Lombardi (Milano (MI), Italy), Andrea Faini, Paolo Castiglioni, Elisa Perger, Ludger Grote, Johan Verbraecken, Gianfranco Parati

Prevalence of obstructive sleep apnea in patients weaned from prolonged mechanical ventilation
Barbara Fusar Poli (Pavia (PV), Italy), Cecilia Burattini, Cinzia Lastoria, Nicoline Ambrosino, Piero Ceriana, Annalisa Carlucci

Impact of obstructive sleep apnea and CPAP treatment on mortality and cardio and cerebrovascular consequences in men of the general population after 20 years of follow-up.
Beatriz Pintado Cort (Madrid, Spain), Andrea Pérez Figuera, Carmen Rodriguez Calle, Diurbis Velasco Alvarez, Francisco Xavier León Román, Edwin Mercedes Noboa, Laura Pozuelo Sánchez, Aldara García Sánchez, Eva Mañas Baena, Carlos Egea Santaolalla, Joaquin Durán Cantolla, Alfonso Muriel, Irene Cano Pumarega

Impact of nocturnal oximetry on mortality and cardiovascular consequences in the general population after 20 years of follow up
Andrea Carolina Perez Figuera (Madrid, Spain), Beatriz Pintado, Diurbis Velasco, Carmen Rodriguez, Aldara Garcia, Eva Mañas, Carlos Egea, Irene Cano Pumarega

Pre-congress content  Session  00:00 - 23:59
E-poster session: From respiratory physiology to diagnosis and treatment

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

The “right way” to the left chamber in non-severe chronic obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva
**Role of lung hyperinflation on cardiac function during acute exacerbations of COPD**
Andrea Cristiano (Peschiera Borromeo (MI), Italy), Maurizio Rizzi, Dejan Radovanovic, Chiara Di Simone, Giuseppe Croce, Giangiuseppe Negretto, Pierachille Santus

**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

**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

**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

**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

**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

**High altitude affects the heart**
Camilla Udjus (Oslo, Norway), Torbjørn Tunestveit, Pavel Hoffmann, Ivar Sjaastad, Karl-Otto Larsen, Ole Henning Skjenssberg, Ulla Hjornholm, Morten Rostrup

**Identifying a criterion heart rate recovery after 6 minute walk in COPD**
Dongxing Zhao (China), 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 Pepin, Clement Letesson, Antoine Dedave, Valerie 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 (Heraclion (Crete), Greece), Marisa Bonsignore, Ludger Grote, Walter Menicholas, Jan Hedner, Johan Verbraecken, Silke Ryan, Carolina Lombardi, Ozen Basoglu, Athanasia Pataka, Oreste Marrone, Sebastien Bailly, Jean-Louis Pepin, Paschalis Steiropoulos, Sophia Schiza

**Transcutaneous electric stimulation: an alternative to CPAP**
Jose Belda Sanchis (Mislata (Comunidad Valenciana), Spain), Vicente Macian

**Sleep apnoea is not associated with the presence of coronary collaterals 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 (Istanbul, Turkey), Gizem Türkeş, Gülten Aktun Güngör, Nesrin Kiral, Coşkun Doğan, Sevda Cömert

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**Pre-congress content**

**Session**

**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
Juliya M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey 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 Fedorechenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaiats

Influence of nutritional features on the generation of reactive oxygen species in the lungs

Effects of aerobic exercise training on the development of lung emphysema induced by high fructose intake in mice
Camila Suehiro (São Paulo (SP), Brazil), Alessandra Toledo-Arruda, Francine Almeida, Clarice Olivo, Rodolfo Vieira, Manoel Oliveira Jr, Milton Martins, Katia De Angelis, Chin Lin

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 Snyrens

Identifying the impact of donor-origin on the therapeutic potential of umbilical cord MSCs to attenuate lung injury in a hyperoxic rodent model of bronchopulmonary dysplasia.
Chanèle Cyr-Depauw (Ottawa (ON), Canada), Arul Vadivel, David Cook, Ivana Mižíková, Laurent Renesme, Yupu Deng, Shumei Zhong, Marius Alexander Mōbius, Bernard Thébaud

Physiological and Immunological Effects of Naıve 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 D'AOle, John Laffey

Stromal cell diversity and functions in lung epithelial regeneration
Paris Papagianis (Melbourne, Australia), Jonathan Mcqualter

Activation of WNT co-receptor LRPS is required for WNT and TGF-ß1 induced fibroblast activation
Ewa Kolosionek (Göteborg, Sweden), Rajneesh Malhotra, 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), Shigeisa Yanagi, Hironobu Tsubouchi, Ayako Miura, Takaummi Shigeuskusa, Nobuhiro Matsumoto, Masamitsu Nakazato

{c-Met expression induction in immune cells modulates pulmonary fibrosis progression
Sandra Costa (Braga, Portugal), Catarina Barbosa-Matos, Caroline Borges-Perreira, Sofia Libório-Ramos, Massimiliano Mazzone

¿Idiopathic pulmonary fibrosis or interstitial lung disease associated to connective tissue diseases? Endothelial progenitor cells as a potential tool for the differential diagnosis
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Victor M. Mora Cuesta, David Iturbe Fernández, Sonia M. Fernandez Rozas, Leticia Lera-Gómez, Pilar Alonso Lecue, Javier Rodríguez-Carrio, Belén Atienza-Mateo, Virginia Portilla, Ricardo Blanco, Alfonso Corrales, Raquel Lopez-Mejias, Miguel A. González-Gay, Jose M. Cifrián

Stress protein expression in lung fibroblasts and BAL cells in COPD patients and healthy subjects.
Martin Ryde (Lund, Sweden), Nicole Van Der Burg, Julie Weidner, Jaro Ankerst, Gunilla Westergren-Thorsson, Leif Bjermer, Ellen Tufvesson
Role of the kinase-dependent functions of RIPK1 in COPD
Hannelore P. Van Eeckhoutte (Ghent, Belgium), 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, Jospha Hey, Claus Peter Heufel, Arne Warth, Giuseppe Petrosino, Raluca Tamas, Dieter Weichenhan, Benedikt Brors, Vladimir Benes, Felix Hearth, Dawid Wyatt, Heiko Stahl, Christoph Plass

LSC - 2019 - The lung DNA methylation profile of patients with COPD: relationship with smoking and airflow limitation severity.

Pre-congress content  Session  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), Chair to be confirmed

The first years of the Swedish National Airway register
Caroline Stridsman (Luleå, Sweden), Jon Konradsen, Lowie Vanfleteren, Christophe Pedroletti, Jonas Binnyr, Peter Edfelt, Yvonne Sjöö, Kerstin Fjällman-Schärberg, Ann Lindberg, Alf Tunsäter, Ann Ekerljung

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 Borna (Moss, Norway), Cathrine Gennert Jakobsson, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

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), Salim Nafti, 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 Zejda

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 outpatients and their physicians - real world data from the CLARA project
Andreas Horner (Kirchschlag bei Linz, Austria), Otto C Burghuber, Sylvia Hartl, Michael Studnicka, Monika Merkle, Horst Olschewski, Bernhard Kaiser, Eva Maria Wallner, Bernd Lamprecht

Comparison of five major airflow limitation criteria to identify high-risk individuals with COPD in the general population
Shoaib Afzal (Herlev, Denmark), Yunus Çokal, 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), Pierpaolo Marchetti, Alessandro Marcon, Giancarlo Pesce, Lucia Calciano, Christer Janson, Deborah Jarvis, Nicole Probst-Hensch, Cecilia 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 Salecicoli, 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

E-poster session: Advances in asthma treatment

Disease(s): Airway diseases
Method(s): Epidemiology, Public health, General respiratory patient care, Pulmonary function testing, Cell and molecular biology, Endoscopy and interventional pulmonology

Chairs: Lies Lahousse (Ghent, Belgium), Chair to be confirmed

Late Breaking Abstract - BENRALIZUMAB IN SEVERE ASTHMA: PRELIMINARY RESULTS FROM THE ITALIAN ANANKE STUDY
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

Late Breaking Abstract - Defining a severe asthma super-responder: findings from a Delphi process
John Upham (Brisbane (QLD), Australia), Chantal Le Lievre, David Jackson, Matthew Masoli, Michael Wechsler, David Price

Late Breaking Abstract - Pharmacological and clinical management of severe asthma in 9 countries: An international survey of clinicians.
Olina Efthymiadou (London, United Kingdom), Bregtje Kamphuis, Victoria Tzouma, Panos Kanavos

Real life benralizumab effect in patients with severe eosinophilic asthma after 16 weeks of observation
Elda Graziani (Fiuminico (RM), Italy), Arianna Sanna, Paola Scarano, Ilaria Menichini, Cecilia Cisternino, Roberto Flore, Corina Tomsa, Paolo Palange

Does use of hormonal contraceptives impact on exacerbations and control in reproductive-age women with asthma? A 17-year population-based cohort study
Syed Ahmar Shah (Edinburgh, United Kingdom), Holly Tibble, Rebecca Pillinger, Susannah Mclean, Dermot Ryan, Hilary Critchley, David Price, Catherine M Hawrylowicz, Colin R Simpson, Ireneou N Soyiri, Francis Appiagyei, Aziz Sheikh, Bright Nwaru

Inter-rater reliability of a novel algorithm to calculate Global Initiative for Asthma (GINA) treatment steps
Karen Hjerrild Andreasson (Næstved, Denmark), Trine Hjerrild Andreasson, Charlotte Suppli Ulrik, Kirsten Sidenius, Søren T Skou, Mike Thomas, Uffe Bodtger

DETERMINE THE OPTIMAL TIME TO ASSESS THE REVERSIBILITY OF THE LIMITATION TO AIRFLOW
Andrea Carolina Perez Figuera (Madrid, Spain), Dúrrbis Velasco, Raquel Morillo, Aurora Solier, Carlos Almonacid

Effect of ABPA treatment in severe asthma patients with acute and relapsed disease
Caterina Bucca (Torino (TO), Italy), Luisa Brussino, Irene Ridolfi, Francesca De Blasio, Stéfania Nicola, Giovanni Rolla

Patient preferences for asthma management: a qualitative study
Christina Baggott (Wellington, New Zealand), Amy Chan, Sally Hurford, James Fingleton, Richard Beasley, Matire Harwood, Helen Reddel, William Levack
Influence of asthma treatment during pregnancy on fetal biometry.
Maria Barca Hernando (Sevilla, Spain), Diana Ramos Apoyala, María Auxiliadora Romero Falcón, Juan Francisco Gallardo Medina, Francisco Javier Alvarez Gutiérrez

SNPs in asthma patients: gender difference in anti-leukotriene therapy
Giuseppe Spaziano (Napoli (NA), Italy), Renata Esposito, Davida Mirra, Elena Piegari, Antonietta Rossi, Fiorentina Roviezzo, Luca Gallelli, Liberto Berrino, Bruno D’Agostino

THE IMPACT OF REFLEXOLOGY AND HOMEOPATHY ADDED TO CONVENTIONAL ASTHMA TREATMENT ON MARKERS OF AIRWAY INFLAMMATION - A RANDOMISED STUDY
Ayfer Topcu (Aarhus, Denmark), Anders Løkke Ottesen, Leila Eriksen, Lars Peter Nielsen, Ronald Dahl

Bronchial thermoplasty in Thailand: 3-year experience in real-world practice
Vorawut Thanhitaweeewat (Bangkok, Thailand), Nophol Leelayuwatanakul, Thitiwat Siripsart

Study to evaluate clinical burden related with oral corticosteroids treatment of severe asthma in Spain (LEVANTE)
Xavier Munoz Gall (Barcelona, Spain), Javier Dominguez Ortega, Silvia Pascual Erquicia, Carlos Cabrera Lopez, Cecilia Jacqueline Martin Panadero, Gema Monteagudo Ruiz, Gustavo Resler

Prevalence of alpha1-antitrypsin deficiency and its influence on lung function decline in patients with severe asthma
Gabriella Guarnieri (Padova (PD), Italy), Andrea Vianello, Beatrice Molenia, Nicola Malacchini, Fulvia Chieco Bianchi, Ilaria Ferrarotti, Marco Caminati, Gianenrico Senna

Rates of major cardiovascular events in severe asthma: US real-world and clinical trial populations
Parul Dayal (South San Francisco, United States of America), Dorothy Cheung, Carlos Iribarren, Michael Rothenberg, Yingjie Ding, C. Victor Spar

The profile of poor ICS adherence in uncontrolled moderate to severe asthma.
Laurien Keulers (LEEUWARDEN, Netherlands), Kim De Jong, Anneke Ten Brinke, Akke-Nynke Van Der Meer

Effectiveness of Nebulized Budesonide in Iranian Patients with Asthma Attack
Atefeh Abedini (Tehran, Islamic Republic of Iran), Arda Kiani, Fatemeh Razavi, Mehrdad Farahani, Negan Bandegani, Javad Valizadeh, Habib Emami

Systematic review of the comparison between adrenaline (epinephrine) and selective β2-agonist in the setting of adults or children with acute asthma
James Fingleton (Wellington, New Zealand), Christina Baggott, Jo Hardy, Jenny Sparks, Donah Sabbagh, Richard Beasley, Mark Weatherall

Pre-congress content

E-poster session: Inhaled corticosteroids and bronchodilator studies in asthma

Disease(s): Airway diseases, Respiratory critical care

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

Chairs: Celeste Michala Porsbjerg (Copenhagen, Denmark), Imran Satia (Hamilton (ON), Canada)

Late Breaking Abstract - Short-acting 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 Kupezyk, Javier Nuevo, Njira Lucia Lugogo, Erika Penz, Santiago Quirec, Chantal Raherison-Semjen, Ralf Van Der Valk

Late Breaking Abstract - The humanistic burden of asthma patients uncontrolled on ICS-LABA: a systematic literature review
Alexandros 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, Luigiño Calzetta
Overuse of short-acting beta-agonists (SABA) and risk factors among patients with asthma
Heinrich Worth (Fürth, 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, Agustín Sojo, Anna Salina, Pritam Gupta, Lorena García Conde

Adherence to FDC Budesonide/Formoterol treatment and lung function of Greek asthmatic patients-COMPLETE study
Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Polyanthi Papanastasiou, Aikaterini Athanassiou, Alexandros Ginis

Long-term adherence to inhaled corticosteroids and asthma control in adult-onset asthma
Iida Väätälo (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 beta-agonist use and asthma exacerbations: a retrospective analysis of a Polish prescription database.
Maciej Kupczyk (Stockholm, Sweden), Wojciech Barg, Grażyna Bochenek, Grzegorz Brożek, Dorota Brzostek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Rafal Dobek, Radoslaw Gawlik, Aleksandra Kucharczyk, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Edyta Zagrajek, Marek L Kowalski

SABA overuse and exacerbations in asthma, SABINA study spanish results
Jacqueline Martín (Madrid, Spain), Vicente Plaza, Martín Gutierrez, Lucía Regadera, Antoni Sicras, Antonio Valero, Jesús Molina

The effect of inhaled beta-agonists on heart rate in asthma: a real world sensor-based observational study
Rishi Khusial (Den Haag, Netherlands), Jacob Sont, Omar Usmani, Kian Fan Chung, Stephen Fowler, Persijn Honkoop, Myaircoach Study Group

Adherence to 6-month FDC Budesonide/Formoterol treatment and Quality of Life in Greek asthmatic patients-COMPLETE study
Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Aikaterini Papataxiarchou, Aikaterini Athanassiou, Alexandros Ginis

Prescription behaviour of short-acting β2-agonists in Switzerland
Claudio Schuoler (Zug, Switzerland), Claudia Steurer-Stey, Elke Ullmer, Romeo Providoli, Vitaly Chiherov, Maria Korobeynikova, Stefan Wetzel, Gunther Pendl

The effect of inhaled corticosteroids on airway hyperresponsiveness to mannitol in patients with Type 2 low asthma
Morten Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Claussen, Jonas S Erjefält, Celeste Porsbjerg

Change in asthma management recommendations is associated with reduction of reliever drugs in the real-world setting: a longitudinal retrospective claims data analysis in Burgenland
Marko Todorovic (Sokobanja, Republic of Serbia), Berthold Reichard, Michael Wolzt, Georg Duftschmid, Daniel Doberer

Efficacy and safety of as-needed corticosteroid plus fast or short-acting beta-agonists monotherapy in patients with mild asthma: a meta-analysis of randomised controlled trials.
Carla Emille Barbon (MANILA, Philippines), Lenora Fernandez

(in)Appropriate LAMA Prescribing in Asthma patients: a Cohort Analysis (the ALPACA study)
Esme J. Baan (Rotterdam, Netherlands), Christina E. Hoeve, Maria A. J. De Ridder, Leis Demoen, Lies Lahousse, Katia M. C. Verhamme, Guy G. Brusselle

Adhesion to inhaled treatment in patients with asthma and COPD
Jacinto Hernandez Borge (Badajoz, Spain), Jacinto Hernandez Borge, Maria Teresa Gómez Vizcaino, Sebastian Hernández Gómez, Amparo Sanz Cabrera, Maria José Antonia Rodriguez
**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)

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**Assessment of asthma morbidity by US patients, specialists, Asthma Control Test™, and Asthma Impairment and Risk Questionnaire™**
Kevin Murphy (London, United Kingdom), Robert S. Zeiger, David A. Beuther, Joan Reibman, Robert A. Wise, William McCann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin S. Coyne, Melissa Ross, Maureen George, Bradley Chipp

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**Spirometry vs Impulse oscillometry in evaluation of children with asthma.**
Varun Garg (New Delhi, India), Ankit Parakh

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**Bronchodilation test: Salbutamol or Ipratropium Bromide?**
Liliana Raposo (Queijas, Portugal), Raquel Barros, Ana Sofia Oliveira, João Valença, Cristina Bárbara

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**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, Mokhigul Ismatova, Xonsuluv Sokhibnazarova, Mirzakamol Ayubov, Victoriya Garib

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**Predictors of asthma non control**
Houda Snène (Tunis, Tunisia), Hana Blibeche, Meriem Ben Rouma, Asma Zaaafouri, Donia Belkhir, Line Kaabi, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

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**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)

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**Seasonal fluctuations in lung function and asthma control in patients with asthma osmotic hyperresponsiveness**
Evgenia Y. Afanasieva (Blagoveshchensk (Amur Oblast), Russian Federation), Anna G. Prikhodko, Juliy M. Perelman

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**Distribution of ACO among the Obstructive Airway Diseases (OADs) - 9 month study.**
Rajesh Agrawal ( Bareilly, India), Rajat Agarwal, Sonia Goel

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**Determine the relationship between fraction exhaled nitric oxide (FeNO) and mannitol challenge test in the diagnosis of suspected asthma patients.**
Andrea Carolina Perez Figuera (Madrid, Spain), Carlos Almonacid Sanchez, Diurbis Rodriguez Calle Velasco Alvarez, Carmen Rodriguez Calle, Aurora Solier Lopez, Alfonso Muriel Garcia, Raquel Morillo Guerrero

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**Socioeconomic Status and Cleaning: Major Factors Affecting Asthma Control**
Umran Ozden Sertcelik (Ankara, Turkey), Ebru Celebioglu, Gul Karakaya, Ahmet Ugur Demir, Ali Fuat Kalyoncu

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**Influence of asthma on hemodynamic parameters according to volume compression oscillimetry.**
Anton Shakhanov (Ryazan, Russian Federation), Oleg Uryasev, Irina Nikitina

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**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

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**Sensitization to Salsola kali pollen depends on the age of the patients**
Nigora Magbulova (Uzbekistan), Stefania Katsamaki, Elnara Ismailova, Mokhigul Ismatova, Gulnara Djambekova, Yuliya Levitskaya, Victoriya Garib

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**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 Suetake, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kukugawa, Kazuto Matsunaga

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**Characterization of asthma and COPD overlap: a single center study**
Davide Piloni (Pavia, Italy), Amelia Grosso, Erica Gini, Federica Albicini, Alice Maria Baldenacchi, Rita Di Domenica, Giulia Accordin, Manuela Coretti, Laura Saracino, Vanessa Ronzoni, Angelo Guido Corsico

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**Evaluation of Systematic Inflammation, Oxidative Stress and Endothelial Disfunction in COPD, Asthmatic and ACO Patients with Obesity.**
Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Oksana Prituliak, Iryna Nemish

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**Fixed obstruction in asthma patients - does it that matter?**
Temenuzhka Ignatova-Danova (Rousse, Bulgaria), Ilia Krachunov, Pavlina Glogovska, Plamen Pavlov, Elena Borisova, Tsanya Popova, Nikolay Kyuchukov, Yavor Ivanov

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ERS 2020 International Congress

DETAILED PROGRAMME

MONDAY 24 AUGUST, 2020
# Relationship of nutritional status and spirometric parameters in children with bronchial asthma


**Pre-congress content**

**Session**

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)

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<th>Late Breaking Abstract</th>
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<tr>
<td><strong>Late Breaking Abstract - Recurrent Neural Networks and environmental data for COPD exacerbation prediction</strong></td>
<td>Cristobal Esteban (Galdacano, Spain), Francisco Javier Moraza, Pedro Garcia, Amaia Aramburu, Fernando Sancho, Leyre Chasco, José Antonio Gutiérrez, Francisco José Conde, Sergio Resino</td>
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<td><strong>Late Breaking Abstract - Reimbursement for asthma care is a universal barrier to achieving asthma symptom control: the SABINA III study</strong></td>
<td>Eric D. Bateman (Cape Town, South Africa), David B. Price, Hao-Chien Wang, Adel Khattab, Patricia Schönfeldt, Angelina Catanzariti, Ralf J.P. Van Der Valk, Maarten J.H.I. Beeckman</td>
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<td><strong>Telehealth vs. standard care in COPD - a randomized controlled trial</strong></td>
<td>Frank Rassouli (St. Gallen, 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</td>
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<td><strong>Regulatory T cells and L-selectin in severe asthmatic patients treated with mepolizumab.</strong></td>
<td>Laura Bergantini (siena, Italy), Miriana D’Alessandro, Paolo Cameli, Alfonso Carleo, Piersante Sestini, Elena Bargagli</td>
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<td><strong>Identifying subgroups of asthma patients for potential intervention using electronic medication monitors (EMM)</strong></td>
<td>Rahul Gondalia (San Francisco, United States of America), Leanne Kaye, David Van Sickle, David Stempel, Meredith Barrett</td>
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<td><strong>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</strong></td>
<td>Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari, Uma Devaraj</td>
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<td><strong>Characterising symptom ‘trajectotypes’ in patients with COPD</strong></td>
<td>Andreas Halmer (OXFORD (Oxfordshire), United Kingdom), Dan Nicolau, Mona Bafadhel</td>
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<td><strong>Effectiveness of community-based interventions following multi disciplinary team discussion in COPD patients</strong></td>
<td>David Anderson (Glasgow, United Kingdom), Cecilia Rafique, Geesh Jayasekera, Hannah Bayes, Stacey Smillie</td>
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<td><strong>Clinical characteristics and disease control of US asthma patients treated in specialty clinics</strong></td>
<td>Bradley Elliott Chipps (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</td>
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<td><strong>Educational intervention to increase adherence to inhaler therapy - INSPIRO Project</strong></td>
<td>Ruxandra Ulmeanu (Bucuresti (Sector 5), Romania), Ramona Elena Nedelcu, Roxana Maria Nemes, Florin Dumitru Mihaltan</td>
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<td><strong>Effectiveness of a panel of sputum markers in smokers with and without COPD to detect pulmonary progression towards functional impairment</strong></td>
<td>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</td>
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<td><strong>Opioid use, perhaps a harbinger of worsening COPD?</strong></td>
<td>Juanita Lestari (Singapore, Singapore), Huying Xu, Han Yee Neo, Ser Hon Puah</td>
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<td><strong>Long-term omalizumab treatment - do drug concentration levels count?</strong></td>
<td>Johannes A Kroes (Leeuwarden, Netherlands), Sander W Ziellhuis, Akke-Nynke Van Der Meer, Kim De Jong, Eric N Van Roon, Anneke Ten Brinke</td>
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Pre-congress content

Session 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:** 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, 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, Milan Chauhan, Ruth De Vos, Tom Brown, Mark Mottershaw, Hitasha Rupani, Anoop Chauhan

- **Targetted screening of chronic obstructive pulmonary disease in french primary care: the DISCO study**
  Emilie Andres (Rennes, France), Bruno Laviolle, Aurelie Veislinger, Fabienne Pelle, Stéphane Jouneau, Anthony Chapron

- **Primary care spirometry with a new mobile phone-linked spirometer - a feasibility study.**
  Piotr Jankowski (Warszawa, Poland), Katarzyna Mycroft, Piotr Korczyński, Łukasz Kołtowski, Mateusz Soliński, Rafal Krenke, Katarzyna Górska

- **Prediction of lung hyperinflation by forced spirometry: Results from COSYCONET**
  Peter Alter (Marburg, Germany), Jan Orszag, Christina Kellerer, Kathrin Kahnert, Tim Speicher, Henrik Watz, Robert Bals, Tobias Welte, Claus Vogelmeier, Rudolf Jörres
### 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 Lüthi-Corridori, Nebal Abu Hussein, Pierre O. Bridevaux, Cordula Cadus, Prashant N. Chhajed, Thomas Geiser, Peter Grendelmeier, Ladina Joos Zellweger, Malcom Kohler, Sabrina Maier, David Miedinger, Michael Tamm, Robert Thurnheer, Anne Tscherischer, Pascal Uruyler, Jörg 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 Boucharessas, Roger Sergysels, Jeanne Bertuit, Vincent Ninane, Vitalie Faoro

### Diagnosis of persistent cough in patients with normal chest X-ray at ACOCU
Ho Lam Nguyen (Hồ Chí Minh, Vietnam), Duy To Truong

### Understanding information needs of patients with asthma in the United Kingdom
Kirstie McClatchey (Edinburgh, United Kingdom), Tracy Jackson

### Management of asthma exacerbations in the practice of general physicians (GP)
Anna V Demchuk (Vinnytsia, Ukraine), Tetyana V Konstantynovych, Yuriy M Mostovoy

### Lack of knowledge regarding nasal inhaler technique in allergic rhinitis: results from a mixed methods study
Esther I. Metting (Groningen, Netherlands), Marije Peters, Corine Rollema, Job F.M. Van Boven, Robbert Sanderman

### Pre-congress content

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<th>Session</th>
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| **E-poster session: Advances in lung function practice** | **Disease(s):** Airway diseases, Interstitial lung diseases, Thoracic oncology, Respiratory critical care, Sleep and breathing disorders  
**Method(s):** Pulmonary function testing, Physiology, Public health, Respiratory intensive care  
**Chairs:** Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Jane Kirkby (Sheffield, United Kingdom) |

- **Is the pre-flight algorithm for COPD patients also valid for patients with ILD?**  
  Liv Karin Vesteng (Jessheim, Norway), Christine Gudim Karlsen, Anne Edvardsen

- **Hypoxic Challenge Testing in Infants; who is recommended in-flight oxygen?**  
  Emma Fettes (London, United Kingdom), Mollie Riley, Aidan Lavery, Paul Aurora

- **The potential role of pre-operative cardiopulmonary exercise testing in endovascular aortic repair.**  
  Elizabeth Dobson (Coventry, United Kingdom), Edward Parkes, Joanna Shakespeare, Ruth Benson, Christopher Imray, David G. Parr

- **Incidence of clinically significant ECG abnormalities in healthy volunteers participating in cardio-pulmonary exercise research.**  
  Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, Iuri Mata, David G Parr

- **Peak heart rate to assess maximal exercise in arm ergometry.**  
  Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr

- **CARDIOPULMONARY EXERCISE TESTING PREDICTING POSTOPERATIVE MORBIDITY IN PATIENTS WITH PULMONARY RESECTION**  
  Carolina España Dominguez (Cádiz, Spain), María Morales González, Alfonso Marin Andreu, Aurelio Arnedillo Muñoz, Isabel Muñoz Ramirez

- **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, Ângela Martins, Ângela 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), Joanne 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, Anamet 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, Sampatha 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 Spellberg, 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 MEP/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

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**Pre-congress content**

**Session**

**00:00 - 23:59**

**E-poster session: Exhaled biomarkers of asthma and the asthma burden**

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

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

**Chairs:** Celeste Michala Porsbjerg (Copenhagen, Denmark), Arnaud Bourdin (Montpellier Cedex 5, France)

**Onset of action of inhaled corticosteroids on bronchial and alveolar nitric oxide output**
Tuomas Karvonen (Tampere, Finland), Anna Sepponen-Lavikko, Kati Holm, Rüdiger Schultz, Eeva Moilanen, Lauri Lehtimäki

**Correlation between clinic and remote FEV1 and FeNO measurements: post hoc analysis of the INCONTRO study**
Sofia Necander (Askim, Switzerland), Mahdi Hashemi, Ziad Taib, Robert Palmér, Katarina Korsback, Malin Aurell, Stephen Delaney, Katerina Pardali, Per Gustafson, David Keeling, Tariq Sethi, Ioannis Psallidas

**The ability of the eNose on the discrimination of smoking status in asthma and COPD**
Stefania Principe (Palermo (PA), Italy), Job Jmh Van Bragt, Cristina Longo, Rianne De Vries, Peter Sterk, Nicola Scичilone, Susanne Sjh Vijverberg, Anke-Hilse Maitland-Van Der Zee

**The challenge with cigarette smoke - the way to predict lung disease development in the future.**
Immanuels Taivans (Riga, Latvia), Gunta Strazda, Normunds Jurka, Valentina Gordjušina

**FeNO as a predictor of Asthma control in a tertiary care centre in South India**
Padanmanabhan Arjun (Trivandrum (Kerala), India), Sanjeev Nair

**Proteins in exhaled air in assessment of asthma in children**
Maria Jussela (Espoo, Finland), Marjut Lehtinen, Venla Aaltonen, Ulrich Bergmann, Seppo Sarna, Erik Qvist, Kristiina Malmström

**Asthma Management Practices among Specialists and General Practitioners in and around Pune city**
SAJIN MATHEW, Shubhi Singhal

**Estimating Chronic Respiratory Disease (Asthma and COPD) burden in adults in Asian LMICs: a pilot study for 4CCORD [4 Country Chronic Respiratory Disease study].**
Dhiraj Agarwal (Pune (Maharashtra), India), Deesha Ghorapde, Sundep Salvi, Nik Sherina Hanafi, Osman Yusuf, Mohnis 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 Pinnock
Uncontrolled asthma has a higher disease burden compared to controlled asthma in adult onset but not in childhood onset asthma
Geertrje M. de Boer (Rotterdam, Netherlands), Laura Houweling, Cathelijne Van Zelst, Gert Verhoeven, Liesbeth Van Rossum, Rudi W. Hendriks, Gerdien A Tramper, Gert-Jan Braunstahl

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, Ramisés Fallán-Valencia, Linde Reyes, Sebastian Rodriguez-Llamazares, Nuria Requeno, Jose Mari Marin, Ciro Casanova Macario, Bartolomé Celli, M Valle Velasco

Anti-DP effects on airway bacterial load in a phase 2a trial
Sarah Diver (Melton Mowbray, United Kingdom), Vijay Mistry, Claudia Micieli, Mohammadali Ramsheh, Koirobi Haldar, Michael Barer, Christopher Brightling

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

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

COMMON COLD INFLUENCES EXHALED VOLATILE ORGANIC COMPOUND PROFILE ANALYZED BY AN ELECTRONIC NOSE.
Silvano Dragonieri (Bari (BA), Italy), Vitaliano N Quarranta, Pierluigi Carratu, Teresa Ranieri, Giovanna Elisiana Carpagnano, Onofrio Resta

Relationship between psychological status and asthma control
Soumaya Bouchareb (Ksar Héllal, Tunisia), Imen Touil, Nadia Keskes, Chaima Ben Rhouma, Ella Nessim, Raja Romdhane, Jalel Knaani, Leila Boussofara

Symptom assessment for preventing physician’s underestimation of asthma control.
Ayumi Chikumoto (Ube-city, Japan), Kazuto Matsunaga, Kazuki Hamada, Keiji Oishi, Masafumi Yano, Yoshikazu Yamaji, Tsunahiko Hirano

Is the determination of eosinophils in the induced sputum useful to assess the control of Asthmatic patient?
Jesus Segundo Gordillo Fuentes (, Spain), Jose Antonio Delgado Torralbo, Ana Gómez-Bastero Fernández, Elena Viciana Martín, Rafael Perera Louvier, Agustín Valido Morales

Oral corticosteroids in the treatment of exacerbation of severe asthma
Anahit Gevorgyan (Yerevan, Armenia)

Are GINA guidelines used correctly to assess asthma severity? – a retrospective study
Mohamed abuzakouk (Abudhabi, United Arab Emirates), Sonya Jacob, Omar Ghorab

Effect of symptoms expression difficulty and excessive physical perception on asthma control test results
Saban Melih Simsek (Manisa, Turkey), Deniz Kizilirmak, Meltem Hazel Şimşek, Yavuz Havlucu

Pre-congress content

E-poster session: New tools for diagnosis of obstructive diseases

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

Physiology

Chairs: Giovanna Elisiana Carpagnano (Bari, Italy), Peter J. Sterk (Amsterdam, Netherlands)

Late Breaking Abstract - Genetic diagnosis of alpha-1 antitrypsin deficiency using saliva samples
Amaia Larruskain (Derio , Spain), Amaya Buxens, Mónica López, Marta Artieda

Late Breaking Abstract - The roles of impulse oscillometry in detection of asthma control level.
Warawut Chaiwong (Chiang Mai, Thailand), Sirianong Namwongprom, Chalermp Liwrisakun, Chaicharn Pothirat

Cross-sectional biomarker comparisons with a longitudinal perspective in asthma monitoring: the eNose premise
Mahmoud Ismael Abdel-Aziz Ibrahim (Amsterdam, Netherlands), Rianne De Vries, Ariana Lammers, Binbin Xu, Anne Neerinx, Susanne Vijverberg, Yenneke Dagelet, Aletta Kraneveld, Urs Frey, René Lutter, Peter Sterk, Anke-Hilse Maitland-Van Der Zee, Anirban Sinha
Characteristics of patients with physician-assigned COPD without airflow obstruction in NOVELTY
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Rod Hughes, Ricardo Del Olmo, Jørgen Vestbo, Barry Make, Eleni Rapsomaniki, Hana Müllerová, David Price

Determinants of arterial stiffness in Alpha-1 Antitrypsin Deficiency
Abubacarr Gassama (Birmingham (West Midlands), United Kingdom), Liz Sapey, Diane Griffiths, Rob Stockley, Prem Kumar, Alice Turner

Comparison of the lung ventilation assessed by a full-scale airway network flow model and xenon-enhanced dual-energy CT of patients with COPD
Minsuok Kim (Oxford, United Kingdom), Ozkan Doganny, Hae Jeon Hwang, Joon Beom Seo, Fergus Gleeson

Comparison of low-dose CT image registration-based “Parametric Response Maps” with global lung function and diffusion capacity in COPD patients
Sam Bayat (Grenoble, France), Ludovic Broche, Mohammed Machichi, Sébastien Bailly, Bruno Degano, Renaud Tamisier, Gilbert Ferretti, Jean-Louis Pépin

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

New method of Alpha-1-antitrypsin diagnosis facilitates the detection of rare mutations
Andreas Klemmer (Marburg, Germany), Martina Veith, Julia Tüffers, Erika Peychev, Christoph Berndt, Viktor Kotke, Christian Herr, Robert Bals, Claus Franz Vogelmeier, Timm Greulich

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 Pavord, David Price, Eleni Rapsomaniki, Donna K Finch, Marianna Alacqua, Hana Müllerová, Rod Hughes

Antecedent hospitalization history of patients newly diagnosed with COPD
Florent Baty (St. Gallen, Switzerland), Michelle Hagmann, Frank Rassouli, Martin Brutsche

Update on CADSET (Chronic Airway Disease Early Stratification) Clinical Research Collaboration

Are T2 biomarkers of any help in diagnosing asthma?
Halehsadat Nekoee Zahraei (Liege, Belgium), Florence Schleich, Emmanuel Graulich, Monique Henket, Virginie Paulus, François Guissard, Anne-Françoise Donneau, Renaud Louis

Prevalence and characteristics of chronic obstructive pulmonary disease patients according to female reproductive history
Yong Suk Jo (Seoul, Republic of Korea), Won Bae, Hyun Lee, Yong-Bum Park

Diaphragmatic movement in COPD patients in rest and after physical activity
Evgeni Mekov (Sofia, Bulgaria), Nikolay Yanev, Nedelina Kurtelova, Adelina Tsakova, Rosen Petkov

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, Shoaib Faruqi

Air trapping on chest CT and pulmonary function in long-term survivors of allogeneic hematopoietic stem cell transplantation (aHSCT)
Ole Henrik Myrdal (Oslo, Norway), Phoi Phoi Diep, Trond M. Aalokken, Ellen Ruud, Lorentz Brinch, Johny Kongerud, Liv Ingunn Sikkeland, May B. Lund

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, Meilin Han, Leif Bjørner, Robert A. Wise, François Maltais, Lee Tombs, Sally Kilbride, Chris Compton, Fernando Martinez

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
**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:** Amelia Licari (Pavia (PV), Italy), Chair to be confirmed

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<td>Differences in the response to treatment with monoclonal antibodies according to age</td>
<td>Ana Gomez-Larrauri (Barakaldo-Bizkaia, Spain), Borja Ortiz De Urbina, Joseba Andia, Elena Garay, Alejandro Rezola, Sandra Pedero, Patricia Sobradillo, Elena Lopez De Santamaria, Lorea Martinez, Milagros Iribarri, Nuria Marina</td>
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<td>Yik Lam Pang (Nottingham, United Kingdom), Iain Stewart, Tim Harrison, Ian Sayers, Dominick Shaw</td>
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<td>Mepolizumab in real-life treatment of severe eosinophilic asthma</td>
<td>Eva Volakova (Olomouc 9, Czech Republic), Jaromir Zatloukal</td>
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<td>Real world outcomes of Mepolizumab for severe asthma in Wales a retrospective analysis</td>
<td>Andrew Harries (Cardiff, United Kingdom), Katie Pink</td>
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<td>Mepolizumab reduces nasal symptoms in asthmatic patients with chronic rhino-sinusitis and nasal polyposis: a 12 months real-life study</td>
<td>Mauro Maniscalco (Napoli (NA), Italy), Aikaterini Detoraki, Maria D’Amato, Raffaella Giacco, Cecilia Calabrese, Matilde Boccia, Eugenio Tremante, Remo Poto, Giuseppe Quaremba, Giuseppe Spadaro</td>
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<td>Evolution of patients with severe asthma treated with mepolizumab</td>
<td>Alvaro Martinez Mesa (Malaga, Spain), Eva Cabrera Cesar, Ana Aguilar Galvez, Nuria Reina Marfil, Esther Sanchez Alvarez, Maria Carmen Fernandez Aguirre</td>
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<td>Effectiveness of biological treatment in severe asthma difficult to control (SADC)</td>
<td>Maria Auxiliadora Morón Ortiz (Huvela, Spain), Jessica Hilares Vera, Jesús Lancha Domínguez, Carolina Puchaes Manchón, José Luis Sánchez-Ramos, Antonio Pereira Vega</td>
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<td>Omalizumab versus mepolizumab in severe asthma: a propensity score matched efficiency retrospective cohort study</td>
<td>Santi Nolasco (Zafferana Etnea, Italy), Crimi Claudia, Raffaele Campisi, Enrico Heffler, Giuseppe Valenti, Corrado Pelaia, Alberto Noto, Girolamo Pelaia, Nunzio Crimi</td>
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<td>Effectiveness of Mepolizumab in Reducing Asthma Exacerbations in Japan</td>
<td>Hiroyuki Nagase (Tokyo, Japan), Jun Tamaoki, Takeo Suzuki, Yasuko Nezu, Ashley Cole, Shiboing Yang, George Mu, Masayuki Katsumata, Masaki Komatsubara, Rafael Alfonso</td>
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<td>Predictor of benralizumab for patients with severe eosinophilic asthma: a retrospective, real-life study</td>
<td>Takanori Numata (Tokyo, Japan), Hanae Miyagawa, Keitaro Okuda, Hirofumi Utsumi, Mitsuhiro Hashimoto, Shunsuke Minagawa, Takeo Ishikawa, Hiromichi Haraguchi, Jun Araya, Kazuyoshi Kusumoto</td>
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<td>The characteristics of treatment failure with omalizumab in patients with severe asthma: The impact of eosinophilic complication</td>
<td>Tomohiro Akaba (Tokyo, Japan), Mitsuko Kondo, Atsushi Kurokawa, Kiyoshi Takeyama, Etsuko Tagaya</td>
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<td>Benralizumab for severe asthma associated with extra-airway eosinophilic diseases</td>
<td>Mikio Toyoshima (Hamamatsu, Japan), Keigo Koda, Tsuchiyoshi Nozue, Takaumi Suda</td>
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<td>ABPA relapse after discontinuation of omalizumab</td>
<td>Caterina Bucchi (Torino (TO), Italy), Luisa Brusino, Irene Ridolfi, Stefania Nicola, Giovanni Rolla</td>
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<td>Differential treatment response to mepolizumab in severe eosinophilic asthma with nasal polyps</td>
<td>Nadia Suray Tan (Singapore, Singapore), Yew Kwong Ong, Manali Mukherjee, Siew Shuen Chao, W.S. Daniel Tan, Mei Fong Liew, Xinxi Xu, Yuansheng Melvin Sng, De Yun Wang, W.S. Fred Wong, Parmeswaran Nair, Veronique Angeli, Hui Fang Lim</td>
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<td>Rapid Benralizumab effectiveness in patients with severe eosinophilic asthma and bronchiectasis</td>
<td>Santi Nolasco (Zafferana Etnea, Italy), Claudia Crimi, Raffaele Campisi, Giulia Cacopardo, Rossella Intravaia, Moreno Portu, Nunzio Crimi</td>
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<td>Long term efficacy and safety of omalizumab in patients with allergic asthma-A real life study</td>
<td>Andriana Papaioannou (Vrilissia (Athens), Greece), Myrto Mplizou, Konstantinos Porpodis, Evangelia Fouka, Eleftherios Zervas, Konstantinos Samitas, Miltiadas Markatos, Spyridon Papiris, Mina Gaga, Despoina Papakosta, Stelios Loukides</td>
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</table>
**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

**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

**Mepolizumab is effective in severe eosinophilic asthmatics: an Austrian real-life study.**
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Wolfgang Pohl

**Serum YKL-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

**E-poster session: Clinical parameters in severe asthma**

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

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

**Physiology:**

**Chairs:** David J Jackson (London, United Kingdom), Renaud Louis (Liège, Belgium)

**Patient-reported versus objective adherence and exacerbation rates in severe asthma.**
Jenny King (Manchester (Greater Manchester), United Kingdom), Stephen Fowler, Leanne Holmes, David Allen, Lynn Elsey

**Practicality and clinical utility of cardiopulmonary exercise testing to investigate complex breathlessness in severe asthma**
Amanda Vigus (Birmingham, United Kingdom), Maximillian Thomas, Adel Mansur

**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

**A “gender phenotype” does really exist in severe asthma.**
Sonia Rizzello (, Italy), Chiara Allegrini, Lorenzo Ciambellotti, Clara De Filippis, Federico Lavorini, Gianna Camiciottoli

**Small airway evolution of a Brazilian severe asthmatic cohort (BRASASP): 10 years follow up**
Nilton Gonçalves 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

**Real prevalence of severe asthma in developing countries - Is the diagnosis correct?**
Manu Chopra (Delhi, India), Vasu Vardhan, Priyanka Singh

**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

**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, Vagia Stamatopoulou, Athina Trachalaki, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Thanasis Solakis, Miltos Markatos, Stefios Vittorakis, Aggeliki Kostaki, Maria Varoucha, Evangelia Stamataki, George Pitsidianakis, Irini Lambiri, Ioanna Mitrouskas, Nikolaos Tzanakis

**Cretan Severe Asthma Registry**
Katerina Antoniou (Heraklion, Greece), Konstantinos Karagiannis, Maria Bolaki, Despo Ierodiakonou, Athina Trachalaki, Vagia Stamatopoulou, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Aggeliki Kostaki, Maria Varoucha, Thanasis Solakis, Miltos Markatos, Stefios Vittorakis, Evangelia Stamataki, George Pitsidianakis, Irini Lambiri, Ioanna Mitrouskas, Nikolaos Tzanakis

**The relationship between lung function and BAL return in severe asthma**
David Hill (Melbourne (VIC), Australia), Laurie Lau, Clare Barber, Colin Newell, Adnan Azim, Ramesh J Kurukulaarathy, Peter H Howarth, Tim Wallis, Anna Freeman

**Is the minimally clinically important difference (MCID) fit for purpose? A planned study using the SAQ**
Joseph Lanario (Plymouth (Devon), United Kingdom), Rupert Jones, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Matthew Masoli
Targeted literature review: burden of disease associated with severe and uncontrolled asthma in France, Germany, Italy, Spain and the UK
Arnaud Bourdin (Montpellier Cedex 5, France), Anna Quinton, Luke Callan, Joshua Dube, Maryann Wu, Sumeet Singh

Relation between pulmonary function tests (PFTs) and severe asthma difficult to control
Byron Enrique Urizar Catalan (Huelva, Spain), María Morón Ortiz, Carolina Puchaes Manchón, Javier Romero Lopez, Antonio Pereira-Vega, José Luis Sanchez Ramos

Diagnosis of Endoscopic Patterns in Severe Asthma
Lidía Mendez Mangas (Hospitalet de Llobregat, Spain), Eva Fontanilles Arbones, Marta Diez Ferrer, Cristina Martin Cabeza, Noelia Cubero De Frutos, Salud Santos Perez, Jordi Dorca Sargatal, Rosa Lopez Lisbona, Mariana Muñoz Esquerre

Personalizing asthma care based on Asthma Control Test (ACT) correlation with treatment of asthma comorbidities in a Malaysian cohort
Nurul Yaqeen (Batu Caves (Selangor), Malaysia), Ahmad Izuanuddin Ismail

The first 30 months of the Portuguese Severe Asthma Registry
Ana Sá-Sousa (Porto, Portugal), Rita Brás, Luís Amaral, Ana Mendes, Wanda Videira, Cecilia Pardal, José Alberto Ferreira, Anna Sokolova, Cláudia Chaves Loureiro, Emilia Faria, Ana Arrobas, Cristina Lopes, Liliana Ribeiro, Márcio Mesquita, Inês Silva, Marta Drummond, Natacha Santos, Paula Alendouro, Pedro Carreiro-Martins, Ricardo Lima, Vânia Caldeira, João A Fonseca

Effect of obstructive sleep apnea on asthma control
Dilber Özden Mat (Ankara, Turkey), Selma Fırat, Kurtuluş Aksu, Funda Aksu, Sezgi Şahin Duyar

Predictors of sputum eosinophilia in severe asthma
Adnan Azim (Bournemouth (Dorset), United Kingdom), Clair Barber, Laurie Lau, Mae Felongco, Helen Wheeler, Paddy Dennison, Ramesh Kurukulaaratchy, Peter Howarth

Quality of life in severe asthma measured by SAQ and EQ5D questionnaires as a function of clinically relevant cut off points
Joseph Lanario (Plymouth (Devon), United Kingdom), Rupert Jones, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Matthew Masoli

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

E-poster session: Monoclonal antibodies; randomised controlled trials and real-world studies in asthma
Disease(s): General respiratory patient care  Epidemiology  Pulmonary function testing  Physiology
Method(s): Airway diseases  Respiratory critical care
Chairs: Corrado Pelaia (Catanzaro (CZ), Italy), Chair to be confirmed

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 Shirmanker, Ciara Cox, Christopher Brightling, Rekha Chaudhuri, Ian Padvor, 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 Brighting, Ian D Padvor, Katie Borg, Pamela Jane McDowell, Sarah Diver, Rahul Shirmanker, 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 Padvor, 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, Graimne D’Ancona, Brian Kent, Jaideep Dhariwal, Alexandra Nanzer-Kelly, David Jackson

Sputum analysis reveals eosinophilic inflammation in difficult-to-control asthma patients with low blood eosinophils and FeNO
Laurie Keulers (LEEUWARDEN, Netherlands), Akke-Nynke Van Der Meer, Anneke Ten Brinke

Dual biologic therapy with mepolizumab a novel solution to dupilumab-induced conjunctivitis
Brianye 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-IL5/IL5R monoclonal antibodies in severe eosinophilic asthma 
Joanne Kavanagh (London, United Kingdom), Cris Roxas, Linda Green, Mariana Fernandes, Louise Thomson, Victoria Payne, Andrew Hearn, Brian D Kent, Grainne D'Ancona, Jaideep Dhairwal, Alexandra M Nanzier, 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 Joksaita, Robert G Price, Ronan O'Reilly, Melissa K Van Dyke, Shibing 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'Ancona, Jaideep Dhairwal, Alexandra M A Nanzier, 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-IL5 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-IL5 therapies? 
Simon LAURET (Toulouse, France), Laurent Guilleminault, 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 Mclenaghan, 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 Salapa, Gene Colice, Jean-Pierre Llanos-Ackert

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

E-poster session: Asthma and cough: clinical trials and pharmacological insights 
Disease(s): Airway diseases. Respiratory critical care
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 Zarankaita, Ian D. Pavord, 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 Zarankaita, Guy Peachey, Neal Sule, Neil Barnes, Emilio Pizzichini, Louis-Philippe Boulet, Nicola A Hanania, Robert Nathan, Steven Pascoe, Ian D Pavord, Andrew Fowler

Predictors of loss of asthma control in the Phase 2a INCONTRO trial: A post-hoc analysis
Robert Palmér (Örebro, Sweden), Joachim Almqvist, Mahdi Hashemi, Ziad Taib, Saib, Nacar Nacar, 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. Antonijan Arbos, Nahomi Castro Palomino Laria, Julio Castro Palomino Laria

Oral corticosteroids for asthma usually prescribed by non-specialists
Akke-Nynke van der Meer (Leeuwarden, Netherlands), Kim De Jong, Michiel Ferns, Mariëke Kroel, Christine Widrich, Anneke Ten Brinke

Reduction in asthma exacerbations with indacaterol/glycopyrronium/mometasone high-dose versus medium-dose: a post hoc analysis from theIRIDIUM study
Kenneth R. Chapman (Toronto (ON), Canada), Konstantinos Kostikas, Huib A.M. Kerstjens, Peter D'Andrea, Motoi Hosoe, Devendra Jain, Abhijit Pethe, Ana-Maria Tanase

Managing T2-High Inflammation in Severe Asthma - Are Biomarkers Better Than Clinician Judgement?
James Michael Ramsahai (Toronto (ON), Canada), Jodie Simpson, Alistair Cook, Peter G Gibson, Vanessa M Mcdonald, Christopher Grainge, Peter Wark

Effect of indacaterol/mometasone on lung function in adolescents versus overall patient population: PALLADIUM study
Matthias Krüll (Berlin, Germany), Richard Van Zyl-Smit, Christian Gessner, Yasuhiro Gono, Oliver Noga, Alexia Richard, Amy De Los Reyes, Xu Shu, Abhijit Pethe, Ana-Maria Tanase, Peter D'Andrea

Pre-congress content

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)

Upregulation of Suppressors of Cytokine Signalling (SOCS3) in COPD alveolar macrophages
Erica Bazzan (Padova (PD), Italy), Mariaenrica Tinè, Graziella Turato, Umberto Semenzato, Micaela Romagnoli, Manuel Cosio, Marina Saetta
The CDK4/6 inhibitor, palbociclib intensifies pulmonary inflammation in bleomycin-induced lung fibrosis
Anna Birnhuber (Graz, Austria), Bakytbek Egemenazarov, Valentina Biasin, Ehsan Bonyadi Rad, Horst Olschewski, Grażyna Kwapiszewska, Leigh Marsh

Alveolar presence of red blood cells correlates with alveolar macrophage iron levels in COPD
James Baker (MANCHESTER, United Kingdom), Molly Hammond, Josia Bungwa, Andrew Higham, Simon Lea, Dave Singh

The content of IgE and circulating immune complexes (CIC) in pregnant women with exacerbation of chronic simple bronchitis due to cytomegalovirus infection
Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Igor N. Gorikov, Irina A. Andrievskaya, Leonid G. Nakhanchem, 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 Kaufmann, Juliane Kronsbein, Marcus Peters, Nikolaos Giannakis, Hanns Hoff, 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, Yassine Amrani, Nathalie Reuter, Tomas Eagan

Levels of protease 3 and neutrophil elastase in plasma, BAL and biopsies in COPD
Bahareh Jouleh (Rådal, Norway), Ingvild Haaland, Fahimeh Khorsand, Randi Sandvik, Thormini Kalanathan, Rune Nielsen, Taraneh Jouleh, Harald Wiker, Per Bakke, Nathalie Reuter, Tomas Eagan

Protease activated receptor 2 (PAR2) antagonism reduces pro-inflammatory cytokine production in bronchial epithelial cells

FK506-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, Aloys 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 Guillaume, Alvar Agusti, Rosa Faner

Erythromycin Reverses Nets-induced Corticosteroid Insensitivity By Inhibition Of The Pi3kd/akt Pathway
Zhiyi He (Nan Ning, China)

THE PROGRESSION OF IMMUNE DISORDERS IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE IS ASSOCIATED WITH CHANGES IN LEUKOCYTE MEMBRANE FATTY ACID COMPOSITION
Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Novgorodtseva, Marina Antonyuk, Tatyana Gvozdenko

Multiplex immunohistochemistry to investigate inflammatory cell spatial organisation and interactions in severe asthma
Latifa Chachi (Leicester (Leicestershire), United Kingdom), Joao Sousa, Chris Brightling, Yassine Amrani

Determination of levels of markers of systemic inflammation in patients with chronic bronchitis in combination with concomitant gastroesophageal reflux disease
Uliana Shevchuk-Budz (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Oleksandr Varunkiv, Iryna Savelikhina, Iryna Makoyda, Kseniia Ostrovskaya

Cross-talk between coagulation and inflammation in COPD. The role of Factor XIII
Erica Bazzan (Padova (PD), Italy), Claudia Radu, Mariaenrica Tiné, Umberto Semenzato, Simonetta Baraldo, Graziella Turato, Paolo Simioni, Manuel Cosio, Marina Saetta

Evaluation of mRNA expression profiling of NF-κB mediated signaling in COPD patients
Ravi Shankar Yadav (Lucknow, India), Surya Kant, Prashant Mani Tripathi, Anuj Kumar Pandey

Mechanisms of extracellular Hsp70 induced inflammatory effects in 16HBE cells
Andrea Hulina Tomášková (Zagreb, Croatia), Anita Somborac-Bačuša, Iva Hlapčić, Marija Grdić Rajković, Lada Rumora
**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, Vasiliy Trofimov, Sergei Shevelev, Irina Spivak, Viktor Mikhelson

**The importance of innate and adaptive immunity in the formation of various variants of the course of seasonal allergic rhinitis**
I. Sizyakina (Rostov-on-Don, Russian Federation), I. Andreeva, N. Semenova

**Pre-congress content**

**Session**

**E-poster session: Aspergillosis and chronic lung infections**

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

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

**Chairs:** Eva Van Braeckel (Ghent, Belgium), Sanjay Haresh Chotirmall (Singapore, Singapore)

- **Clinical application and radiological 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

- **Cavitary lung lesions - microbiological identification of mycobacteriosis**
  Ruslan Asanov (Ulyanovsk, Russian Federation), Natalya Karpina, Ekaterina Shishkina, Elena Larionova, Atadzhan Ergeshov

- **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 Maraghli

- **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 Welle, Roland Diel, Felix Ringhausen

- **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

- **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

- **Performance of Siemens immulite immunoassay for detection of A. fumigatus and A. flavus flavus specific IgG for chronic pulmonary aspergillosis diagnosis in Pakistan**
  Kauser Jabeen (Karachi, Pakistan), Joveria Farooqi, Nousheen Iqbal, Khalid Wahab, Muhammad Irfan

- **An open label randomized controlled trial comparing nebulized amphotericin B with oral itraconazole in patients with pulmonary aspergilloma**
  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 Furuuchi, 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

Launch of a novel intrapleural fibrinolytic service for empyema at a district general hospital in London
Ewan Mackay (London, United Kingdom), Sivathanam Sasi Kumar

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 Kaminskii, Eduard Karamov, Irina Vasileyeva

In vitro susceptibility testing of bedaquiline against mycobacteria avium-intracellulare complex
Marina Makarova (Nizhnekamsk (Republic Tatarstan), Russian Federation), Yulia Litvinova, Natalia Litvinova, Lidia Guntupova, Vitalyi 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 Kammoun

Pre-congress content 00:00 - 23:59
E-poster session: Translational science in respiratory infections
Disease(s) : Airway diseases
Method(s) : Cell and molecular biology  Physiology  General respiratory patient care  Pulmonary function testing
Chairs : Martin Witzenrath (Berlin, Germany), Kylie Belchamber (Birmingham, United Kingdom)

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), Sergej 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 Dannheinm, 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 Sugura, Tomohiro Ichikawa, Numakura Tadahhisa, Hirano Taizou, Mitsuhiro Yamada, Takaaki Akaite, Ichinose Masakazu

Condition of cellular immunity in patients with prolonged course of community acquired pneumonia
Roman Razumnyi (Lugansk, Ukraine), Kateryna Gashynova

In vitro vivo activity of Avermectin 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 Omura, Yoshihiko Hoshino
Systematic evaluation of clarithromycin (CLA) resistance associated mutations in Mycobacterium abscessus complex based on whole-genome sequencing analysis and drug susceptibility testing.

Mitsunori Yoshida (Tokyo, Japan), Hanako Fukano, Kentaro Yamamoto, Masato Suzuki, Kozo Morimoto, Naoki Hasegawa, Satoshi Mitarai, Manabu Ato, Yoshihiko Hoshino

Phosphorothiate 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, Shradha 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 pneumoniae triggers rapid release IL-1(II)-26 in human neutrophils

Karlians Che (Stockholm, Sweden), Anders Lindén

LSC - 2019 - IRF5 regulates airway macrophage metabolic responses to viral challenge

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

Dóra Paróczai (Deszk, Hungary), Dávid Kókai, Katalin Burián

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 (VLPs) containing the influenza HA and/or NA in a murine model of postinfluenza bacterial pneumonia

Irina LENEVA (Moscow, Russian Federation), Irina Falynskova, Andrey Egorov, Alexander Poddubikov, Reingard Grabberr, 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

Novel in vitro and ex vivo models for preclinical evaluation of inhalable antibiotics

Sabine Wronski (Hannover, Germany), Katharina Schwarz, Detlef Ritter, Jan Knebel, Katharina Blümlein, Nico Sonnenschein, Sven Cleeves, Laura Müller, Norman Nowak, Monika Niehof, Katherina Sewald, Tanja Hansen, Armin Braun

Pre-congress content

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), Chair to be confirmed

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 Tal-Singer, James D Chalmers

Neutrophil extracellular traps levels are associated to severity and complications in community-acquired pneumonia

Paula González Jiménez (Valencia, Spain), Raúl Méndez, Laura Feced, Maria P. Fernández-Pérez, Rocio González-Conejero, Constantino Martínez, 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 Agustí, Eduard Monsó

Vitamin D as a marker of worsening of the course of pneumonia.

Tatiana Luchnikova (Blagoveschensk (Amur Oblast), Russian Federation), Olga Prikhodko

Composition ratio and drug-sensitivity distribution of phlegmy patogenic bacteria from AECOPD inpatients

Tiangang Ma (, China), Yanbing Hu, Qinghua Zhang
Metabolite markers identify pneumonia better in serum than sputum or broncho-alveolar lavage fluid
Qiang Xiao (Foshan, China), Xiaobin Zheng, Xiang Liu, Liang Li, Fu Rong

Neutrophil elastase is correlated with disease severity in a cohort from Southern Europe
Andrea Gramagna (Milano (MI), Italy), Stefano Aliberti, Tommaso Pilocene, Giovanni Sogtiju, Margherita Ori, Carlotta Di Francesco, Laura Saderi, Alice Gelmini, Leonardo Terranova, Martina Oriano, Angela Bellofiore, 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-Mcneill, 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 Tamm, Daina Stolz

Evaluating 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
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 mycobacterium 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 Vasilevya

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 Martí, 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 Aliberti (Milano (MI), Italy), Giovanni Sotgiu, Francesco Menzella, Marialma Berlendis, Federico Dente, Sebastian Ferri, Marina Aiello, Angelo Corsico, Valentina Conti, Salvatore Battaglia, Vittoria Comellini, Paola Favorio, Emanuela De Juli, Megan Crichton, Eva Polverino, James Chalmers, Francesco Blasi

Mycobacterium abscessus activates cross-resistance following antibiotic exposure
( ), 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).
Eva Polverino (Barcelona, Spain), Letizia Traversi, Miguelangel Martinez-Garcia, Michal Shteinberg, Apostolos Bossios, Katerina Dimakou, Pierluigi Paggiaro, George Ghillas, Yochoad Adir, Sebastian Ferri, Antonio Spunevillo, Federico Dente, Stefano Aliberti, James Chalmers

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
Pontus Mertsch (München, Germany), Isabell Pink, Jessica Rademacher, Andrés De Roux, Stefanie Konwert, Roland Diel, Grit Barten, Annette Zaurawi, Tobias Welte, 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 Carrozzi

The clinical impact of nebulised antibiotics in adults with bronchiectasis and chronic pseudomonas aeruginosa
Michaela Donaghy (Newtonabey, United Kingdom), Charlotte Addy, Jenny McLorman, Oonagh Hewitt, Ruth Redfern, Damian Downey, Steven Caskey

High frequency chest wall oscillation use in non-cystic fibrosis bronchiectasis: a feasibility study.
Giulia Cacopardo (Palermo (PA), Italy), Claudia Crimi, Raffaele Campisi, Santi Nolasco, Stefano Alia, Nunzio Crimi

Use of Decametoxinum in bronchiectasis
Kseniia Suska (Dnipro, Ukraine)

Impact of cough on insomnia and sleep quality in bronchiectasis
Sebastian Ferri (Catania (CT), Italy), Serena Tammaro, Mariangela Retucci, Angela Bellofiore, Silvia Soloperto, Carlotta Di Francesco, Alice Gelmini, Andrea Gramagnia, Margherita Ori, Alberto Braghieri, Francesco Blasi, Stefano Aliberti

Isolation of Nontuberculous Mycobacteria in Seville, Spain.
Maria Barca Hernando (Sevilla, Spain), Juan Francisco Medina Gallardo, Verónica González-Galán, Ana Rodriguez-Rey, Rafael Luque Márquez, Javier Aznar Martin

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

E-poster session: Translational aspects of idiopathic pulmonary fibrosis
Disease(s) : Airways diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : General respiratory patient care, Cell and molecular biology, Physiology, Public health, Imaging, Epidemiology
Chairs : Argyris Tzouvelekis (Athens, Greece), Chair to be confirmed

The novel oligonucleotide therapeutics PK-7010 for TGF-81 ameliorates bleomycin-induced pulmonary fibrosis in mice
Naoki Takahashi (Tokushima, Japan), Seidai Sato, Takeshi Imakura, Kojin Murakami, Nobuhito Naito, Kozo Kagawa, Kazuya Koyma, Hiroshi Kawano, Kazuaki Tanigawa, Wataru Toriumi, Yasuhiiko Nishioka

PDGFRA and aSMA mark two distinct mesenchymal cell populations in parenchymal and vascular remodeling in pulmonary fibrosis.
Valentina Biasin (Graz, Austria), Slaven Crnkovic, Anita Sahu-Osen, Anna Birnhuber, Elie El Agha, Katharina Sinn, Walter Klepetko, Andrea Olschewski, Saverio Bellusci, Leigh M. Marsh, Grazyna Kwapiszewska
DPP-4 is overexpressed in lung tissue from idiopathic pulmonary patients and activates lung fibroblasts
Paula Montero Magalló (valencia, Spain), Javier Milara, Inés Roger, Cristina Estornut, Julio Cortijo

Altered ECM niche in IPF affect structural remodeling
Linda Eloewsson Rendin (Lund, Sweden), Anna Löfdahl, Liang Xiong, Barbora Michaliková, 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 Szablowska, Grzegorz Przybyliski

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 (Athens, Greece), Emily Zifa, Andreas Mouikis, Aglaia Pozantzi, Konstantina Rossi, Anna-Maria Psarra, Sotiros Sinis, Foteini Bardaka, Foteini Malli, Konstantinos Gourgoulianis, Zoe Daniil

What cells are replacing the epithelium in cystic remodeling in UIP and COPD
Helmut H. Popper (Graz, Austria), Tamas Zombori, Luka Breic, Sylvia Eidenhammer, Wim Timens

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 Abdenababi, Afef Nahdi, Ridha Ben Ali, Mona Milka, 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), Takeshi Yamamoto, Kana Waki, Yuko Morimoto, Takeshi Imakura, Kojin Murakami, Naoki Takahashi, Nobuhito Naito, Kozo Kagawa, Kazuya Koyama, Hiroshi Kawano, Koichi Tsuneyama, Yasuhiko Nishihoka

The pulmonary microbiome and immunological activity in IPF patients.
Kristel Svalland Knudsen (Bergen, Norway), Peter S Hiemstra, Sverre Lehmann, Rune Nielsen, Tomas Mikal Eagan

Inhalation of thoron (Tn) gas in controlled conditions of high background radiation (HBR) using natural thorium: Radioactive dose accepy direction and acute pneumocytosis 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, Hansu Vähäniikkilä, Minna Purokivi, Riitta Kaareenaho

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 E MIPRE 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 Jovkvska Kaeva, Simona Littnerová, Marina Roksandić Milenković, Martina Vašáková
Pre-congress content  Session  00:00 - 23:59

E-poster session: Addressing unresolved questions in rare diffuse parenchymal lung diseases: interdiscplinary 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

**Chairs:** Cormac McCarthy (Dublin 4, Ireland), Maria Molina Molina (Barcelona, Spain)

**Incidence and prevalence of Systemic Sclerosis-associated Interstitial Lung Disease in a multicenter prospective cohort study.**
Els Vandecasteele (Ghent, Belgium), Karin Melsens, Daniel Blockmans, Charlotte Carton, Filip De Keyser, Ellen De Langhe, Bernard Lauwerys, Yves Piette, Amber Vanhaecke, Koen Verbeke, Wim Wuyts, Guy Brusselle, Vanessa Smith

**Effects of nintedanib in patients with SSc-ILD and preserved and highly impaired lung function**
Wim A Wuyts (Rotselaar, Belgium), Arata Azuma, Jörg H W Distler, Klaus Sondergaard, Susanna Proudman, Vincent Cottin, Elvira Erhardt, Manuel Quaresma, Martina Gahlemann, Margarida Alves, Toby M Maher

**FVC decline in patients with SSc-ILD by use of anti-acid therapy**
Michael Kreuter (Heidelberg, Germany), Hilario Nunes, Gerard J Criner, Petros Sfikakis, Wendy Stevens, Corinna Miede, Manuel Quaresma, Margarida Alves, Ganesh Raghu

**Rerationship between interstitial pneumonia related systemic sclerosis and esophageal motility abnormalities**
KENICHIRO HARA (Maebashi, Gunma, Japan), Kouichi Yamaguchi, Masakiyo Yamatomi, Hiroaki Tsurumaki, Takeshi Hisada, Toshitaka Maeno

**Interstitial lung disease with AANC-associated vasculitis (AAV-ILD): Clinical features and survival compared to patients with ILD associated with systemic sclerosis and IPF**
Felipe Reyes (Peñalolén, Chile), Silvana Saavedra, Karen Vergara, Pamela Abramovitz

**Lung involvement in primary biliary cholangitis (PBC)**
Victoria Sholomova (Moscow, Russian Federation), Larisa Akulkina, Michael Brouko, Michael Kalashnikov, Denis Konovalov, Alisa Yanakaewa, Sergey Moiseev

**Effect of anti-IL-17 biologics on K L -6 level and coexisting interstitial pneumonia patients with psoriasis**
Hiromichi Hara (Tokyo, Japan), Hanae Miyagawa, Jun Araya, Shunsuke Minagawa, Takanori Numata, Yoshinori Umezawa, Akihiro Asahina, Kazuyoshi Kurokawa

**Clinical characteristics of lymphangioleiomyomatosis and application of a novel automated cyst burden score**
Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Joseph Morrow, Alan Kelly, Aurelie Fabre, Jonathan Dodd, Michael Keane, David Murphy, Cormac McCarthy

**Comparison of pulmonary function tests (PFTs) and 6-minute walk test (6MWT) in patients with lymphangioleiomyomatosis (LAM)**
Jean-Charles Glerant (Bron, France), Rémi Diesler, Vincent Cottin, Ségolène Turquier, Mouhamad Nasser, Kais Ahmad, Julie Traclet

**Design of phase II, randomized, placebo-controlled study of loratadine associate with rapamycin in patients with lymphangioleiomyomatosis (LAM)**
Jaume Bordas-Martinez (Barcelona, Spain), Carmen Herranz, Vanesa Vicens-Zygmont, Antonio Román, Cristina Berastegui, Piedad Ussetti, Rosalia Laporta, Julio Ancochea, Claudia Valenzuela, Alvaro Casanova, Emilio Ansotegui, Jose Antonio Rodriguez-Portal, Guadalupe Bermudo, Patricio Luburich, Roger Llatjós, Salud Santos, Jordi Dorca, Pilar Hereu, Miquel Angel Pujana * Sharing Senior Position, Maria Molina-Molina * Sharing Senior Position

**Birt Hogg-Dubé syndrome in Poland**
Elżbieta Radzikowska (Warszawa, Poland), Lucyna Opoka, Jolanta Winek, Katarzyna Blasinska, Elżbieta Wiatr

**Pivotal role of the HMGB1/sRAGE axis in drug-induced lung injury in advanced lung cancer with pre-existing interstitial lung disease**
Satoshi Nakao (hirosimma, Japan), Yamaguchi Kakukihoro, Shinjiro Sakamoto, Yasushi Horimasa, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Hiroshi Iwamoto, Shinichiro Ohshima, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

**Clinical characteristics of a Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH) Cohort**
Margaret Gleeson (Limerick, Ireland), Aurelie Fabre, Dermot O'Toole, Rachel Crowley, David Murphy, Cormac McCarthy

**Effectiveness of chemotherapy treatment for patients with pulmonary Langerhans cell histiocytosis during long-term follow-up**
Arina Zinchenko (St. Petersburg, Russian Federation), Lubov' Novikova, Mikhail M. Ilkovich
Biphasic cuirass ventilator for pulmonary alveolar proteinosis; the retrospective observational study.
Daisuke Tamanoi (Kumamoto-shi, Japan), Chieko Yoshida, Toshiki Kimura, Takayuki Jodai, Tatsuhiro Isimura, Shinichiro Okamoto, Hidenori Ichiyasu, Tatsuro Yamamoto, Takuro Sakagami

A single-centre retrospective study to phenotype unclassifiable interstitial lung disease
Laura Fabbri (Nottingham, United Kingdom), Mouhamad Nasser, Kais Ahmad, Julie Traclet, Vincent Cottin

Comorbidities in unclassifiable interstitial lung disease
Charlotte Hyldgaard (Åbyhøj, Denmark), Sebastiano Torrisi, Sissel Kronborg-White, Claudia Ganter, Elisabeth Bendstrup, Michael Kreuter
Ten-year review of congenital thoracic malformations in Wales
Lena Thia (Cardiff (South Glamorgan), United Kingdom), Laura Price, Emily King, Elisabeth Parks, Rhian Isaac, Iolo Doull, Julian Forton

How children on long term ventilation die
Anna Mulholland (Liverpool, United Kingdom), Clare Halfhide, Andrew Selby

Mechanical ventilation management during high-frequency oscillatory ventilation for premature infants with severe hypoxemic respiratory failure
Shih Ming Chu (Taiwan), Ming Horng Tsai, Jen Fu Hsu

Thoracoabdominal rebalancing method and conventional respiratory physiotherapy in removing airway secretions in newborns
Ingrid Guerra Azevedo (Natal (RN), Brazil), Bruno Henrique Silva De Souza, Ingrid Fonseca Damasceno Bezerra, Sabrinne Suelen Santos Sampaio, Silvana Alves Pereira

Outcomes following the use of inhaled nitric oxide rescue therapy in preterm infants less than 30 weeks gestation
Davina Sham (Leicestershire, United Kingdom), Sumit Mittal, Robin Miralles

A UK survey of the management of infants with bronchopulmonary dysplasia (BPD)
Emma Russell-Jones (London, United Kingdom), Eleanor Jeffreys, Emma Williams, Sarah Sturrock, Anne Greenough

Clinical Spectrum of Neonatal Respiratory Morbidity in Developing Country
Nisha Keshary Bhatta (Dharan, , Nepal), Sandeep Chauhan, Jyoti Agrawal, Shanker Yadav, Lok Raj Sah, Rupa Rajbhandarisingh

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

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 Negroni, Gian Luca Casoni

Bronchial brushing are still useful in the diagnosis of peripheral lesions?
Elena Torricelli (Firenze (FI), Italy), Giulia Innocenti Bruni, Cecilia Marmai, Nirvana Stanflin

Utility of fiberoptic bronchoscopy in the critical care unit: how far-reaching are the complications and outcomes?
Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Marwa. Khedr

Bronchoalveolar lavage: are we following ATS guidance?
Ivor Allon (London, United Kingdom), Stephen Joseph, Rahul Mogal, Rama Vancheeswaran

Utility of ultrathin bronchoscope in a bronchoscopy unit
Itziar Campo Esnaola (PAMPLONA, Spain), Sergio Curi Chécoles, Leire Albarrán De La Cruz, José Antonio Cascante Rodrigo, Javier Villuela Bayón, Javier Hueto Pérez De Heredia, Pilar Cebollero Rivas

Evaluation of regional pulmonary function using a bronchoscopic capnometer in patients with COPD
Shin Matsuzawa (Kawasaki, Japan), Hiroki Nishine, Hirotaka Kida, Teruomi Miyazawa, Takeo Inoue, Masamichi Mineshita

Impairment of pulmonary function as a main risk factor for ineffective endobronchial valve placement in patients with chronic cavitory tuberculosis
Mikhail Chuskin (Moscow, Russian Federation), Lydia Popova, Elena Sherghina, Olga Lovacheva, Irina Shabalina, Tat'evik Bagdasaryan, Natalya Chernykh, Elena Krasnikova, Olga Gordeeva, Natalya Karpina

Hemorrhagic Endobronchial metastasis of renal cell carcinoma
Marcos Oliveira (Aguada de Cima, Portugal), Jorge Dionisio, Ambrus Szantho, Duro Da Costa
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 Šivokozov, Yulia Turovtceva, Irina Shabalina, Dmitriy 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 (, India), Pavankumar Biraris, Rajani Bhat, Pooja Bajaj, Rohan Aurangabadwala, Ravindra Mehta, Sameer Bansal

Endobronchial biopsy: a comparative study to evaluate alligator and cup forces at Institute of Respiratory diseases, SMS medical college, Jaipur.
Vinayak Mangal (Jaipur (RJ), India), R. K. Janew, Sheetu Singh

To compare the effect of Dexmedetomidine as a premedication during flexible bronchoscopy with Tramadol and paracetamol- open label randomised control trial
Vijay Naram Tyagi (Meerut (Uttar Pradesh), India), Rahul Kathuria, Manish Katiyar, Anupum Samanta, Prashant Bendre, Amit Garg

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

E-poster session: Endobronchial ultrasound: from rookie to pro

Disease(s) : Thoracic oncology, Interstitial lung diseases, Airway diseases
Method(s) : Endoscopy and interventional pulmonology, Surgery, Imaging, Respiratory intensive care, General respiratory patient care

Chairs : Karan Madan (New Delhi (Delhi), India)

Late Breaking Abstract - Effect of endobronchial coil therapy-a lung volume reduction therapy-on hemorheological and oxidative parameters
Erhan Ugurlu (Denizli, Turkey), Nazli Cetin, Emine Kilic Toprak, Nilufer Yigit, Özgen Kilic Erkek, Hilmiye Pakyurek, Hande Şenol, Göksel Altimisik, Melek 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 Cíntrão 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 Britstra, 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), Maria Inês Matias, Paulo Matos, Michele De Santis, Lourdes Barradas

Peripheral 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 Hernandez, Lucas Román Rodriguez, 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 hiliomediasitial lymph nodes diagnosis in non-pulmonary neoplasms
Carolina España Dominguez (Cádiz, Spain), Maria Pérez Morales, Maria Morales González, Alfonso Marin Andreu, Cayo Garía Polo

Thoracic endosonography (EBUS/EUS-b). A single center retrospective analysis.
Serafeim Chrysikos (Athens, Greece), Theodoros Karampitsakos, Maria Anyfanti, Ourania Papaioannou, Georgios Hillas, 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 Öğütürk (İstanbul, 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 Rodríguez, Maria Barca Hernandez, 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, Yoshihito Kogure, Hideo Kigtagawa

Pre-congress content Session 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 Shlteinberg (Haifa, Israel)
**Salivary SLPI and disease severity in bronchiectasis**
Lídia Perea Soriano (Barcelona (CT), Spain), Elisabet Cantó, Jordi Giner, Stefano Aliberti, James D Chalmers, Silvia Vidal, Oriol Sibila

**Proteinase-3 as a biomarker of exacerbations in bronchiectasis.**
Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Yonghua Gao, Hollian Richardson, Holly Keir, Alison Dicker, Kelly Moffitt, Amelia Shoemark, James Chalmers

**Bronchiectasis: prevalence of asthma diagnosis and asthma-associated factors**
Tjeerd van der Veer (Amsterdam, Netherlands), Marleen Bakker, Lieke Kamphuis, Alain Dubois, Rogier Hoek, Joachim Aerts, Menno Van Der Eerden

**Alpha-1 antitrypsin deficiency in patients with bronchiectasis: data from the European Bronchiectasis Registry EMBARC**

**Exploring factors associated with chronicity of infection in bronchiectasis: a population based study**
Michal Shteinberg (Hatíla, Israel), Racshed Shakiri, Yochai Adir, Nili Stein, Walid Saliba

**Factors associated with one-year mortality in hospitalized patients with exacerbation of bronchiectasis.**
Giulia Scioscia (Lucera (FG), Italy), Rosanel Amaro, Victoria Alcaraz-Serrano, Albert Gabarrus, Laia Fernandez-Barat, Patricia Oscanoa Huaman, Rosario Menendez, Raul Mendez, Maria Pia Foschino Barbaro, Antoni Torres

**Association between low fat mass and non-tuberculous mycobacteria infection in patients with bronchiectasis**
Jaeho Lee (Seongnam-si (Gyeonggi-do), Republic of Korea), Sung Yun Lim, Yeou Joo Lee, Jong Sun Park, Young-Jae Cho, Ho Il Yoon, Choong-Tae Lee

**Heterogeneity of treatment response in bronchiectasis clinical trials**
Oriol Sibila Vidal (Barcelona, Spain), Elena Laserna, Amelia Shoemark, Diana Bilton, Megan L Crichton, Anthony De Soyz, Wim G Boersma, Josie 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 Housein, Demet Turan, Halit Cinarka, Mehmet Akif Ozgul, Erdosan Cetinkaya

**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), David Cipolla, Bruce Thompson, Angela M Davis, Anne O'Donnell, Gregory Tino, Igor Gonda, Charles Haworth, Juergen Froehlich

**Sex related differences in aetiology, severity and quality of life in bronchiectasis: data from the EMBARC, EMBARC-India and Australian bronchiectasis registries**

**Placebo effects in pharmaceutical clinical trials in bronchiectasis: an EMBARC study**

**Evaluation of Neutrophil to Lymphocyte Ratio (NLR) in bronchiectasis exacerbation.**
Vasiliki Georgakopoulou (Athens, Greece), Konstantinos Mantzouranis, Despina Melemeni, Georgios Petsinis, Dimitrios Mermigkis, Agathi Lekkakou, Evgenia Karakou, Rea Chatzikyriakou, Nikolaos Trakas, Xanthi Tsiafaki
**What's important for people with NTM? An EM BARC-ELF patient survey**
Michal Shteinberg (Haifa, Israel), Jeanette Boyd, Bridgette Harris, Pieter Goemmine, 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, Chih-Hsin Yeh, Chun-Hua Wang, Horang-Chyuan Lin

**The level of MDA in BALF might reflect oxidative tissue damage in patients with mild MAC pulmonary disease.**

**The difference of airway microbiota between nontuberculous mycobacteria lung disease and bronchiectasis**
Chin-Chung Shu (Taipei, Taiwan)

**Non-tuberculous mycobacteria: five year experience**
Mariana Conceição (Covilhã, Portugal), Angela Dias Cunha, Rita Ferro, Sónia Guerra, Joana Batista Correia, António Reis, António Simões Torres

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**Pre-congress content**

**Session 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)

**Healthy children's sputum - a marker of exposure to air pollution at school?**
Abigail Whitehouse (London, United Kingdom), Jonathan Grigg

**Parent-child agreement in reporting of current wheeze: can we trust questionnaires?**
Rebeca Mozun (Bern, Switzerland), Cristina Ardura-Garcia, Eva S. L. Pedersen, Myrofora Goutaki, Jakob Usemann, Florian Singer, Philipp Latzin, Alexander Moeller, Claudia E. Kuehni

**Operational definitions of paediatric asthma used in epidemiological studies: A systematic review**
Mohammad Shahidul Islam (Edinburgh, United Kingdom), Samir Huq, Salahuddin Ahmed, Sudipto Roy, Steve Cunningham, Samir K Saha, Harish Nair

**Meta-analysis of the prevalence of asthma and asthma symptoms in Russia**
Bairma Batozhargalova (Moscow, Russian Federation), Yury Mizernitskiy

**Asthma treatment for children in tertiary care in Switzerland**
Cristina Ardura-Garcia (Bern, Switzerland), Eva Sophie Lunde Pedersen, Carmen De Jong, Jürg Barben, Anja Jochmann, Andreas Jung, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Claudia Elisabeth Kuehni

**Epidemiology of severe respiratory syncytial virus infection in Ethiopian infants: A prospective study**
Abate Yeshidinber Weldetsadik (Addis Ababa, Ethiopia), Frank Riedel

**Mortality in preterm infants with bronchopulmonary dysplasia associated pulmonary hypertension: a systematic literature review**
Sandrine Leroy (Allschwill, Switzerland), Laura Downham, Sofija Cerovic, Catherine Lesage

**Primary ciliary dyskinesia and non-CF bronchiectasis in the 100,000 Genomes Project**

**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, Lurà Marco, Isabelle Rochat, Myrofora Goutaki, Claudia Kuehni

**Management of congenital lung malformations in Scottish paediatric centres**
Louise Thomson (Glasgow (Glasgow), United Kingdom), Kenneth Macleod
Prevalence and risk factors of chronic cough in Swiss schoolchildren
Maria Christina Mallet (Basel, Switzerland), Rebeca Mozun, Cristina Ardura-Garcia, Philipp Latzin, Alexander Moeller, Claudia E Kuehni

Comparison of the profiles of children with bronchiectasis over two 5-year periods
Gabrielle McCallum (Darwin (NT), Australia), Lesley Versteegh, Cate Wilson, Paul Bauert, Brian Spain, Anne Chang

Increased infant food diversity and the risk of asthma and allergic rhinitis up to 12 years of age
Emma Goksör (Molnlycke, Sweden), Bright Nwaru, Göran Wennergren

Urgency consultations for respiratory diseases in children 5-14 years old and their association with environmental factors in the town of Calama, Chile
Orietta Nicolas (Chile), Juan Carrillo, Francisco Muñoz, Ivan Silva, German Ibacache

Levels of matrix metalloproteinases (MMPs) in HIV-infected children and adolescents with airway obstruction.
Evgeniya Sovershaeva (Tomasjord, Norway), Dan Bowen, Louis Marie Yindom, Jon Odland, Trond Flåegstad, Rashida Ferrand

Epidemiology of Robin sequence in the United Kingdom and Ireland: findings of a national surveillance study
Marie Wright (Vancouver (BC), Canada), Felicity Mehendale, Patricia Jackson, Edile Murdoch, Sheila Javadpour, Don Urquhart

A systematic review of the impact of food insecurity on the risk of developing asthma, or having poor asthma control, in childhood
Samra Mahmood (Bradford, United Kingdom), Stephanie Cheetham, Lynsey Brown, Daniel Hawcutt, Philip Lawrence, Sarah Mayell, Omendra Narayan, Justus Simba, Matthew Thomas, Ian Sinha

The prevalence of tracheobronchomalacia in children with Primary Ciliary Dyskinesia
Synne Sperstad Kennelly (Norway), Ketil Heimdal, Finn P. Reinhold, Suzanne Crowley

Pre-congress content
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)

Foreign Body Removal by Flexible Bronchoscopy Using Retrieval Basket in Children
Elpis Hatziagorou (Thessaloniki, Greece), Fotios Kirvassilis, Andreas Ntaflos, Athanasios Skouras, George Kontzoglou, John Tsanas

Lymphoid interstitial pneumonia should be suspected in children with autoimmune disease and immune deficiency
Nagehan Emiralioğlu (Ankara, Turkey), Busra Köseoğlu, Dilber Ademhan, Beste Ozsezen, Birce Sunman, Guzin Cine, Nursun Özcan, Berna Oğuz, Diclehan Orhan, Ebru Yağcı, Deniz Doğru, Uğur Özel, Nural Kiper

Clinical characteristics and radiological findings of children with hypersensitivity pneumonitis?
Nagehan Emiralioğlu (Ankara, Turkey), Beste Ozsezen, Nursun Ozcan, Dilber Ademhan, Birce Sunman, Berna Oğuz, Diclehan Orhan, Guzin Cine, Ebru Yağcı, Deniz Doğru, Uğur Özel, Nural Kiper

Severity of Bronchiectasis and Lung Functions Related with the Genotype of Primary Ciliary Dyskinesia Patients
Nagehan Emiralioğlu (Ankara, Turkey), Berna Oğuz, Beste Özçezan, Dilber Ademhan, Birce Sunman, Ebru Yağcı, Deniz Doğru, Nural Kiper, Uğur Özel, Nural Kiper

Bronchial wall biopsy for ciliary samples in children with primary ciliary dyskinesia
Adnan Zafar (Rawalpindi, Pakistan), Muhammad Amin Ur Rahman, Mohammad Alzaid, Wadha Alotaibi

Bronchiectasis in children: a risky evolution of recurrent respiratory infection
Giulia Maria Luisa Cammi (Italy), Laura Paradiso, Emma Longoni, Michele Ghezzi, Marco Morelli, Andrea Farolfi, Enza Carminna D’Auria, Gianvincento Zuccotti

Comparison of patient care pathway between primary ciliary dyskinesia and cystic fibrosis
Ralph EPAUD (Cretteil, France), Noémie Salaün-Penquer, Camille Jung, Celine Delestrain, Natascha Remus, Benoît Douvry, Salome EPAUD, Matthieu Ortega, Bernard MAITRE

Pulmonary Hypertension in Childhood
Ayşe Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboğlu, Tugba Ramshali Gursoy, Zeynep Reyhan Onay, Pelin Asfıroğlu, Serdar Kula, Fatma İncedere, Sevimı Tokgoz, Deniz Oğuz, Sedef Tunaoğlu
An unusual cause of congenital stridor
Anna Wiemers (Düsseldorf, Germany), Dirk Schramm, Peter Amrhein

Follow-up of children after resection for congenital thoracic malformations
Emma Longoni (Milan, Italy), Giulia Maria Luisa Cammi, Laura Paradiso, Michele Ghezzi, Marco Morelli, Andrea Farolfi, Enza Carmina D’Auria, Gianvincenzo Zuccotti

Review of a children's complex airway clinic
Teresa MacCarrick (Chester, United Kingdom), Ravi Sharma, Andrew Selby

A case of Stevens-Johnson Syndrome associated with bronchiolitis obliterans
Ayse Tana Aslan (Ankara, Turkey), Tugba Ramasli Gursoy, Hacer Ilbilge Ertoy Karagol, Zeynep Reyhan Onay, Rana Beyoglu, Gulcin Durukan Gunaydin, Oznur Boyunaga, Tugba Sismanlar Eyuboglu

Tracheomalacia: our ten years experience in Milan
Laura Paradiso (Milano, Italy), Giulia Maria Luisa Cammi, Emma Longoni, Michele Ghezzi, Marco Morelli, Andrea Farolfi, Enza Carmina D’Auria, Gianvincenzo Zuccotti

Longitudinal bronchoscopy findings in children with mucopolysaccharidosis II (MPS II)
Marianne Muhlebach (Chapel Hill, United States of America), Joseph Muenzer

A Novel Mutation in Primary Ciliary Dyskinesia: c. 2511dupC p.(Thr838Hisfs*15)
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboglu, Fatma Kurt Colak, Tugba Ramasli Gursoy

Progressive lung disease caused by ABCA3 mutation
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Sevgi Pekcan, Matthias Griese

Clinical features of surfactant metabolism disorders in children
Ayse Tana Aslan (Ankara, Turkey), Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Pelin Asfuroglu, 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 Eyüboglu

Flexible or rigid? a tertiary center experience in extraction of inhaled foreign bodies in children
Inbal Golan- Tripto (Beer sheva, Israel), Dina Weinstein Mezan, Sergei Tsaregorodtsev, Liran Stiler-Timor, Yotam Dizitzer, Aviv Goldbart, Micha Aviram

Pleural tuberculosis in a Tunisian serie:On what diagnostic tools we rely?
BAILI HASSENE (sousse, Tunisia), Hamdi Besma, Jrad Sonia, Khalfallah Ikbel, Louhaichi Sabrine, Allouch Asma, Radhouani Alaa, Ammar Janel, Hamzaoui Agnès

Pre-congress content  Session  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)

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 fibroleastosis in two respiratory reference centers in santiago, chile.
Gina Miranda (santiago, Chile), Laura Mendoza, Nadia Herrera, Vivianne Agar, Claudio Silva, Ivan 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

Clinical evolution and diagnosis in neuroendocrine cell hyperplasia of the infancy (NEHI): a 12-year follow-up of ten children
Sergio Iniesta González, Andrés Piolatti, Silvia Castillo Corullón

Trachea stenosis in Kestel syndrome
Pilar Caro Aguilera (Malaga, Spain), Yazmina Martínez García, Inmaculada Gómez Garrido, Javier Pérez Frías, 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 Sainada, Rosário Ferreira, Ana Margarida Silva, Andreia Descalço, Teresa Bandeira

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, Heirike Wilkens, Frank Langer

Extracorporeal photopheresis: an effective treatment for pulmonary graft versus host disease
Vicky Taylor, Matthias Klammer, Raminder Aul

Pulmonary alveolar microlithiasis: genetic disorder and concomitant altered calcium metabolism
Yuliana Pascual-González (L’Hospitalet de Llobregat, Spain), Ester Cuevas, Patricio Luburich, Vanesa Vicens-Zygmunt

Effect of Disodium Etidronate in Patient With Pulmonary Alveolar Microlithiasis
Mina Gharibzadeh Hizal (Ankara, Turkey), Sanem Eryılmaz Polat, Gokcen Dilsa Tugcu, Altan Günes, 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), Christoph A. Hinze, Regina Maus, David S. Deluca, Tobias Welte, Martin Kolb, Ulrich A. Maus

Role of regulatory T cells in S. pneumoniae-induced exacerbation of lung fibrosis in mice
Tina Bormann (Hannover, Germany), Steffi Moyé, Regina Maus, Tobias Welte, Jakk Gaudel, Martin Kolb, Ulrich A. Maus

Effect of rifampin, a potent organic-anion-transporting polypeptide inhibitor (OATPi), on the PK of BM5-986278, a lysosphosphatidic acid receptor (LPA1) antagonist
Giridhar Tirucherai (Princeton, United States of America), Edgar D Charles, Qian Ruan, Tara Hawthorne, Dale Yu, Ratna Revankar, Gregory Appenfeller

THRX-155707 is a highly potent lung-selective TGFβ1 receptor kinase (ALK5) inhibitor designed for inhaled delivery to treat lung fibrosis
Alexander McNamara (South San Francisco, United States of America), Svitlana Kulyk, Christina Owens, Matthew Frates, Kristopher Josephson, Ingrid Lua, Amy Scandurra, Cecile Yu, Erik Sandvik, Adam Hughes

Pre-congress content | Session | 00:00 - 23:59
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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)
In-hospital and long term (10-year) outcomes of thromboembolic disease in a single tertiary center in Greece: "Real world data"
Evangelia Serasli (Thessaloniki, Greece), Stavros Tryfon, Marianna Moyseos, Alexia Stavrati, Eleni Kerezidou, Athina Georgopoulou, John Zarifis, Adamantios Chloros

Prevalence of Pulmonary Embolism Among Systemic Lupus Erythematosus patients
Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milic, Vladimir Zuginic

How many patients recover from acute kidney injury after pulmonary embolism?
Laurent Bertoletti (Saint Etienne Cedex, France), Martin Bergström, Sébastien Guillon, Edouard Ollier, Adel Merah, Nathalie Moulin, Sandrine Accassat, Cécile Duval, Elodie De Magalhaes, Patrick Mismetti, Manuel Monreal

Obstructive sleep apnea and prognosis in acute pulmonary embolism
Thomas M. Berghaus (Augsburg, Germany), Fabian Geissenberger, Sabine Haberl, Martin Schwaiblmair, Wolfgang Von Scheidt, Dirk Von Lewinski, Michael Probst, Thomas Kroenecke, 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, Seim Ibrahim, Kobayashi, Noriaki Emoto, Ken-Ichi Hirata

Diagnostic value of d-dimer in the diagnosis of pulmonary embolism in pregnancy
Somayeh Sadeghi (Tehran, Iran), Bahareh Safaian

Clinical in-hospital mortality profile of pulmonary embolism
Loreta Karaulli (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 Livaniou, Evangelos Dimakakos, Dimitrios Vassos, Panagiota-Elisavet Polvsey, Dimitra Grapsa, Elias Kainis, Konstantinos Syrigos

Original, simplified, and modified pulmonary embolism severity indices in risk stratification of pulmonary embolism
Maha Yousif (Menouf, 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 Ouaich, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujini, Samira Merai

Hydatid pulmonary embolism
Imen Bouassida (Ariana, Tunisia), Amina Abdelkhir, Hazem Zribi, Asma Saad, Amine Ben Mansour, Sonia Ouergi, Aida Ayadi, Adel Marghli

Improvements in short- and long-term outcomes in patients with pulmonary embolism after outpatient pulmonary rehabilitation
Stephan Nopp (Vienna, Austria), Frederikus A. Klok, Florian Moik, Milos Petrovic, Irmgard Derka, Cihan Ay, Ralf H. Zwick

Differences 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 Peña, Laura Arely Martínez, Arturo Orea, Karen Aide Santillán, Yue Lluzbeth Luna-Rodriguez

Endothelin-1 gen (EDN1) regulating mRNAs are downregulated in idiopathic pulmonary arterial hypertension
Adolfo Balboa Villar (Pontevedra, Spain), Mauro Lago Dacocma, Carlos López, Carlos Vilarin, Joan Albert Barberá, Isabel Blanco, Diana Valverde

Differences of functional capacity between patients with left heart failure and righthart failure associated with chronic pulmonary diseases
Guadalupe Lluzbeth Luna Rodríguez (Nezahualcoyotl, Mexico), Arely Martínez, Viridiana Peña, Laura Arely Martínez, Arturo Orea, Rocio Sánchez Santillán, Karen Santillán Reyes, Karla Leticia Rosales Castillo, Guadalupe Lluzbeth Luna Rodríguez

Pre-congress content Session 00:00 - 23:59
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), Chair to be confirmed
Late Breaking Abstract - The impact of COPD on hypercapnia during flexible bronchoscopy with EBUS-TBNA in analgosedation
Daniel Strohleit (Essen, Germany), Erich Stoelben, Friederike Magnet, Thomas Galetin

Safety and diagnostic yield of echobronchoscopy guided transvascular puncture
Marwan Mohamed Choukri (Madrid, Spain), Andrés Giménez Velando, Francisco José Loso Del Hierro, Ainhoa Izuquierdo Pérez, Andrés Mauricio Morales García, Javier Flandes Aldeyterriaga

Variability of sedation controlled by pulmonologists during EBUS in Spain
Juan A. Cáscón Hernández (Gijón, Spain), Blanca De Vega Sánchez, María Pavón Masa, Carmen Lucena Pozo, Lucía Ferreiro, Chunshiao Hu Yang, Aurelio Luis Wangiemert Pérez, Francisco Muñiz González, Paola Antonella Benedetti, Ignacio Lobato Astiárraga, Beatriz Amat Humaran, Virginia Leiro Fernández

Is EBUS sampling adequate for molecular testing in patients with advanced NSCLC?
Dawar Rizavi (Watford, United Kingdom), Thushara Bandara, Jaymin Morjaria

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 Wojtucha, Jerzy Soja, Juliusz Pankowski, Damian Czyżewski, Wojciech Zajęcki, Arkadiusz Joks, Adam Cmiel, Artur Szlubowski

Elastography A Double-Edged Knife in Countries with High Prevalence Anthracosis
Arda Kiani (Teheran, Islamic Republic of Iran), Atefeh Abedini, Fatemeh Razavi, Mehrdad Farahani, Marzieh Hashemi, Habib Emami, Forouzan Mohammadi

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

Endobronchial microcoil fiducial markers for stereotactic radiotherapy
Leslie Noreiz (Lausanne, Switzerland), Alessio Casutt, Catherine Beigelman-Aubry, Maurizio Bernasconi, Remy Kinj, André-Dante Durham, Christophe Von Garnier, Alban Lovis

Comparative diagnostic accuracy of thoracic endosonography (EBUS/EUS-b) and integrated PET-CT in mediastinal staging of potentially operable patients with NSCLC.
Serafeim Chrysikos (Athens, Greece), Ioannis Gkiozos, Katerina Dimakou, Eleftherios Zervas, Theodoros Karampitsakos, Maria Anyfanti, Argyrios Tzouvelekis, Nikolaos Koulouris, Ioannis Vassileiadis, Konstantinos Syrigos

Randomised controlled trial on optimal sequence in radial guide sheath endobronchial ultrasound (R-EBUS) transbronchial lung biopsy
Chinthaka Samaranayake (Brisbane, Australia), Craig Wright, Shiv Erigadoo, Maree Azzopardi, Michael Putt, Michael Bint

Endobronchial Ultrasound (EBUS) for T4 staging in patients with resectable NSCLC
Jolanda C. Kuivinenhoven (Leeuwarden, Netherlands), Vanina Livi, Artur Szlubowski, Maarten Ninaber, Daniel Korenvaar, Lauran Stoger, Ralph Widy, Jerry Braun, Wim Jan Van Boven, Rocco Trisolini, Jouke Annema

From ERS EBUS course to independent EBUS/EUS-B; an experience from a newly established EBUS center in Nepal
Deebya Raj Mishra (Dharan, Nepal), Narendra Bhatta, Niharika Shah

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

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

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 Szklo

Negative predictive value of EBUS-TBNA in mediastinal staging of lung cancer
Maria Morales Gonzalez (Jerez de la Frontera, Spain), Cayo Garcia Polo, Carolina España Domínguez, Isabel Muñoz Ramírez, María Pérez Morales
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:** Rainer Gloeckl (Schoenau am Koenigssee, Germany), Chair to be confirmed

**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 Hérengt, Daniel Veale

**Association between patient-reported outcomes and exercise test outcomes in patients with COPD.**
Roy Meys (Heerlen, Netherlands), Anouk Stoffels, Sarah Houben-Wilke, Daisy Janssen, Chris Burtin, Hieronymus Van Hees, Frits Franssen, Bram Van Den Borst, Emiel Wouters, Martijn Spruit

**A newly developed ultra-small portable oxygen concentrator with equivalent efficacy to the conventional device**
Shohei Kawachi (Matsumoto, Japan), Keisaku Fujimoto, Mahoko Sano

**Prevalence of non-pharmacological treatable traits in patients with asthma**
Steffi Lemmens-Janssen (Leiden, Netherlands), Martijn Spruit, Jeanine Antons, Remco Djamin, Tjitske Tjalma, Hans Inn 'T Veen, Sami Simons, Hanneke Van Helvoort, Alex Van 'T Hul

**Barriers to Exercise in Difficult Asthma in the WATCH Cohort**
Anna Freeman (Southampton, United Kingdom), Adnan Azim, Colin Newell, David Hill, Deborah Knight, Laura Presland, Matthew Harvey, Helen Moyes, Karl J Staples, Ramesh Kurukulaaaratchy, Tom M A Wilkinson

**Effects of a NEMS program in muscle-wasted AECOPD patients**
Laura Lopez Lopez (Granada, Spain), Andrés Calvache Mateo, Irene Torres Sánchez, Maria Granados Santiago, Jesús Gonzalez Dueñas, Marie Carmen Valenza

**The correlation between quadriceps muscle strength and endurance and exercise performance in patients with COPD**
Anouk Vaes (Horn, Netherlands), Maurice Sillen, Yvonne Goërtz, Maarten Van Herck, Frits Franssen, Chris Burtin, Alex Van 'T Hul, Martijn Spruit

**The effects of mechanical insufflation-exsufflation on lung function and complications in post-cardiac surgery patients**
PI HUNG TUNG (Taoyuan, Taiwan), Men-Fang Wu, Tsai-Yu Wang, Da-Shen Chen, Han-Chuang Hu, Shu-Min Lin

**Determinants of ESWT time variability in patients with COPD**
Anouk Stoffels (Nijmegen (GE), Netherlands), Jeannette Peters, Mariska Klaassen, Hanneke Van Helvoort, Roy Meys, Peter Klijn, Chris Burtin, Wim Derave, Frits Franssen, Martijn Spruit, Bram Van Den Borst, Hieronymus Van Hees

**Effect of portable non-invasive ventilation on exercise tolerance in COPD: one size does not fit all**
Nikolaos Chynkiamis (Newcastle Upon Tyne, United Kingdom), Matthew Armstrong, Emily Hume, Charikleia Alexiou, Lauren Snow, Nicholas D. Lane, Tom Hartley, Stephen C. Bourke, Ioannis Vogiatzis

**Resting Energy Expenditure in COPD: development of a new predictive equation**
Panaioitis Finamore (Roma (RM), Italy), Greta Lattanzi, Claudio Pedone, Simone Scarlata, Antonio Alma, Raffaele Antonelli Incalzi

**Clinical evaluation of portable oxygen concentrators: impact of pulse oxygen delivery on exercise**
Maxime Patout (Mont-Saint Aignan, France), Julien Maris, Boris Melloni, Claudio Rabec, Jacqueline Delrieu, Tristan Bonnevie, Francis-Edouard Gravier, Frederic Herengt, Yara Al Chikhanie, Didier Foret, Arnaud Chambellan, Jesus Gonzalez-Bermejo, Antoine Cuvelier, Jean-Francois Muir

**Factors that affect the severity of fatigue in patients with COPD**
Ridvan Akta (balcova (izmir), Turkey), Aylin Ozgen Alpaydin, Elvan Keles, Sevgi Ozalevli

**Health status in COPD according to short physical performance battery summary score**
Anouk Stoffels (Nijmegen (GE), Netherlands), Jana De Brandt, Roy Meys, Hieronymus Van Hees, Anouk Vaes, Peter Klijn, Chris Burtin, Frits Franssen, Bram Van Den Borst, Maurice Sillen, Emiel Wouters, Daisy Janssen, Martijn Spruit

**Feasibility and benefits of an innovative airway clearance device in COPD patients hospitalized for acute exacerbation**
Ivan Solovic (Vysne Hagy, Slovakia), Alena Bodnarova, Laurent Morin
The impact of walking behind the patient on six-minute walk test distance in chronic obstructive pulmonary disease: a randomized cross-over study
Thomas Riegler (Heiligenschwendi, Switzerland), Anja Frei, Sarah R. Haile, Thomas Radtke

Comparison of high-flow oxygenation to noninvasive ventilation in COPD exacerbation
Atefeh Fakharian (Tehran, Islamic Republic of Iran), Abbas Rezaee, Hamidreza Jamaati, Esmail Eidani, Atefeh Abedini, Fariba Ghorbani

Need of help for activities of daily living in patients with mild to severe COPD: Who helps, with what and how much?
Ulla Möller Weinreich (Ålborg, Denmark), Rina Juel Kaptajn, Tina Helle

Measuring the experience of living with COPD and receiving medical care in people with COPD
Marcie A Jones (Leicestershire, United Kingdom), Rachael A Evans, Neil J Greening, Michael C Roberts, Nicole Toms, Matthew Hodson, Michael C Steiner

Pre-congress session: Prediction of outcomes in obstructive diseases
E-poster session: Airway diseases - Respiratory critical care

Late Breaking Abstract - Comparative analysis of effectiveness of Asthma Control Test-guided treatment versus usual care in patients with asthma from China
Ling Ye (China), Xiwen Gao, Chunlin Tu, Chunling Du, Wencho Gu, Jingqiong Hang, Lei Zhao, Zhijun Jie, Hailing Li, Yueming Lu, Jin Wang, Xiaoyan Jin, Meiling Jin

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

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

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

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

Sputum Vitamin D binding protein (VDBP) GC 15/15 genotype predicts airway obstruction: a prospective study in smokers with COPD
Jing Gao (Stockholm, Sweden), Tanja Törölä, Chuan-Xing Li, Steffen Ohlmeier, Tuula Toljamo, Pentti Nieminen, Noboru Hattori, Ville Pulkinnen, Hiroshi Iwamoto, Wotold Mazur

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

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

Z-alpha1-antitrypsin polymers and small airways disease: a new paradigm in COPD development?
Laura Pini (Brescia (BS), Italy), Luciano Corda, Guido Levi, Laura Tiberio, Chiara Rocchetti, Marianna Arici, Jordan Franz Giordani, Claudio Tantucci
Mortality prediction in chronic obstructive pulmonary disease comparing the GOLD 2015 and GOLD 2019 staging systems: a pooled analysis of individual patient data
Elena García Castillo (Madrid, Spain), Tamara Alonso Pérez, Julio Ancochea Bermúdez, María Teresa Pastor Sanz, Juan Pablo De Torres, Bernd Lamprecht, Pere Almagro, Pablo Martínez Camborl, Marc Miravitlles, Mónica Rodríguez Carballé, Inmaculada Alfageme, Ana Sofía Ramírez García-Luna., Berhard Kaiser, Ciro Casanova, Cristobal Esteban, Juan José Soler Cataluña, Bartolomé Celi, Jose María Marín, Patricia Sobradillo, Peter Lange, Judith García Aymerich, Josep Anto, Alice Turner, Han Meilan, Arnulf Laghammer, Sigrid Vikjord, Alice Stenberg, Linda Leivseth, Ane Johannessen, Oga Toru, Borja Cosio, Andrés Echávarreta, Nicolás Roche, Pierre Regis Bürgel, Don Sin, Milo Puhan, Jose Luis López Campos, Annie Narvarro, Laura Carrasco, Per Bakke, Joan B Soriano

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

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

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

Increased plasma fibrinogen could predict frequent exacerbations in asthma
Vitina Carriero (Orbassano (21), 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 Hwan Yoo, Yong-Bum Park

Phenotypic factors as predictors of thrombotic conditions in patients with chronic obstructive disease
Elnorahon Abduganieva (Москва, 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 Boteanu

A novel alert system for impending acute exacerbation of COPD based on cough monitoring.
Michael Crooks (York (North Yorkshire), United Kingdom), Albertus Den Brinker, Ralph Van Dinther, Susannah Thackray-Nocera, Caroline Wright, Alyn Morice

Pre-congress content Session 00:00 - 23:59
E-poster session: Clinical studies of COPD: combination inhalers and much more
Disease(s): Airway diseases
Method(s): General respiratory patient care Cell and molecular biology Pulmonary function testing Public health Epidemiology
Chairs: Nicolas Roche (Paris, France), Alexander Mathioudakis (Manchester, United Kingdom)

The TRIFLOW study: A randomised, cross-over study evaluating the effects of inhaled beclometasone/formoterol/glycopyrronium (BDP/F/G) on hyperinflation in COPD
Dave Singh (Manchester, United Kingdom), Catalina 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. Fergusson, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

TriOptimize VII: Improvement of health-related quality of life after 3 months treatment with extrafine single inhaler triple therapy in COPD patients in a real-world setting.
Christian Gessner (Leipzig, Germany), Sanaz Bahari Javan, Raimund Hövelmann, George Georges, Kai Melchior, Carl-Peter Criè
Effect of triple therapy with extra-fine BDP/FF/GB pMDI vs non-triple maintenance therapies on severe COPD exacerbations. A pooled analysis of the TRILOGY, TRINITY and TRIBUTE studies.
Dave Singh (Manchester, United Kingdom), Enrico Clini, Alberto Papi, Alessio Piraino, Elena Nudo, Alessandro Guasconi, George Georges, Jorgen Vestbo

Initial treatment with tiotropium/olodaterol improves physical inactivity in patients with treatment-naive COPD
Koichiro Takahashi (Saga, Japan), Masaru Uchida, Go Kato, Ayako Takamori, Hiironori Sadamatsu, Masahide Tanaka, Ryo Tajiri, Hiroshi Inoue, Takashi Kinoshita, Keisuke Kojima, Makoto Yoshida, Hiromi Kobayashi, Hiroki Tashiro, Shinichiro Hayashi, Atsushi Kawaguchi, Naoko Sueoka-Aragane, Tomotaka Kawayama

INTREPID study: Once-daily single-inhaler fluticasone furoate/umeclidinium/vilanterol vs multiple-inhaler triple therapy; sub-analysis by prior medication strata
Chris Compton (Brentford, Middlesex, United Kingdom), Sally Worsley, Dawn Midwinter, Afisi Ismaila, Kai-Michael Beeh, Valentina Di Boscio, Janwillem Kocks, Jose M. Marin, Maggie Tabberer, Neil G. Snowise, David M.G. Halpin

Characterising patients with COPD by baseline short-acting 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 Maltain, 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 levels in the ETHOS trial: a subgroup analysis
Klaus F. Rabe (Kiel, Germany), Fernando J. Martinez, Gary T. Ferguson, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie McLaren, Patrick Darken, Magnus Aurivillius, Colín Reisner, Paul Dorinsky

Involvement of airway eosinophilia and airway hyperresponsiveness in management and therapy for COPD
Hiroaki Kume (Sennan, Japan), Masayuki Hojo, Naozumi Hashimoto

Response to inhaled corticosteroids in patients with non-asthmatic eosinophilic bronchitis
Katarzyna Białek-Gosk (Warszawa, Poland), Marta Dąbrowska, Elżbieta M Grabczak, Olga Truba, Aleksandra Rybka-Frączek, Karolina Klimowicz, Rafał Krenke

Ensifentrine added on to tiotropium significantly improves lung function, symptoms and QoL in symptomatic COPD patients regardless of baseline reversibility
Kathleen Rickard (Durham, United States of America), Thomas Bengtsson, Tara Rheault

Comparative effectiveness of LABA versus LAMA initiation in COPD: Real world cohort study
Samy Suissa (Montréal (QC), Canada), Sophie Dell’Ariello, Pierre Ernst

Triple therapy de-escalation to dual bronchodilation in COPD patients: Baseline data from the DACCORD cohort
Heinrich Worth (Fürth, Germany), Roland Buhl, Peter Kardos, Victoria Obermoser, Eva Gückel, Claus F. Vogelmeier, Carl-Peter Criée

Pre-congress content

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

E-poster session: Clinical data and COPD management

- **Disease(s):** Airway diseases, Respiratory critical care, Sleep and breathing disorders
- **Method(s):** Public health, Physiology, General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Palliative care, Epidemiology
- **Chairs:** Sara Cuevas Ocaña (Nottingham, United Kingdom), Chair to be confirmed

**Predictive factors of vitamin D status in southern-mediterranean patients with COPD**
Makle Chaabouni (Sfax, Tunisia), Walid Feki, Khansa Chaabouni, Khouloud Abdelmouleh, Youssef Elloumi, Nadia Moussa, Sameh Msaad, Fatma Makni Ayadi, Samy Kammoun

**Monitoring COPD patients according to the GOLD 2017 document: systemic and bronchial inflammation.**
Patrizia Pignatti (Pavia, Italy), Dina Visca, Francesca Cherubino, Martina Zappa, Laura Saderi, Elisabetta Zampogna, Giovanni Sotgiu, Antonio Spanevello

**Exploring respiratory rate as a novel health marker in COPD**
Grace France (Leicester, United Kingdom), Neil J Greening, Dale Eslinger, Michael C Steiner, Sally J Singh, Mark W Orme
Prediction of exacerbation in one-year follow-up of patients with chronic obstructive pulmonary disease
Kristina Tot Vereš (Zrenjanin, Republic of Serbia), Miroslav Ilić, Biljana Zvezdin, Nevena Savić, Ana Milenković Jakić

Features of differences in clinical anamnestic, functional indicators, and alpha-1-antitripsin, in teenagers with chronic bronchitis, in the gender-age aspect
Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Vasiliy Feodorovich Pyatin, Egor Dmitrievich Mokin

Different clinical suspect that brings to the diagnosis of alpha1-antitrypsin deficiency
Stefania Ottaviani (Pavia (PV), Italy), Bruno Balbi, Valentina Barzon, Alice Maria Balderacchi, Alessandra Corino, Davide Piloni, Francesca Mariani, Angelo Guido Corsico, Ilaria Ferrarotti

Comparison between tools for measuring breathlessness: cross-sectional observation and predictive properties
Masaaki Kusunose (Obu, Aichi, Japan), Ryoj Sanda, Ayumi Narita, Koichi Nishimura

Opioid prescription for severe chronic breathlessness to hospitalised patients with COPD - a clinical audit
Xinye Chen (Melbourne, Australia), Natasha Smallwood

Using pharmacy sales data to estimate treated COPD prevalence in Portugal
António T. Rodrigues (Portugal), Mariana Romão, Rúben Pereira, Heudtlass Peter, Agostinho Marques, Luís Rocha, João Cardoso, José Alves

Differences in health related quality of life among caregivers of COPD patients according to the level of perceived burden
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arley Martínez , Viridiana Peláez Hernández, Dulce Gonzales Islas, Arturo Orea Tejeda, Karen Santillán Reyes, Karla Rosales Castillo , Guadalupe Lizzbett Luna Rodriguez, Valeria Martinez Vázquez

Sex differences in chronic respiratory failure patients users of long-term oxygen therapy
Nouha Guediri (Tunis, Tunisia), Jihene Ben Amar, Haifa Zaibi, Besma Dhahri, Hichem Aouina

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 Papaporfryiou, Maria Kaponi, Katerina Dimakou

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

Stratifying COPD patients by cluster analysis using clinical and behavioral variables
Cathelijne van Zelst (Rotterdam, Netherlands), Lucas Goossens, Maureen Rutten-Van Molken, Johannes In ‘T Veen

Atherosclerosis of the bracheocephalic arteries in healthy smokers and patients with COPD
Vera Nezvorova (Vladivostok (Primorsky Krai), Russian Federation), Elena Kondrashova, Dmitriy Bogdanov, Tatyana 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 Alpaydın, Selin Erkan, Ceyda Sahan, Kemal Can Tertemiz

Comparison of prognostic significance of the quality of life questionnaires in patients with COPD combined with hypertension
Anastassia Melenevych (Kharkiv, Ukraine)

Lung function differences between men and women with COPD
Raquel Barros (Lisboa, Portugal), Carolina Santos, Tiago Pereira, Ana Sofia Oliveira, Cristina Bábara

Prevalence, determinants and impact of nocturnal hypoxemia in COPD patients not candidates for domiciliary oxygen therapy
trina sarkar (mumbai, India), Lancelot Pinto, Ashok Mahashur

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

E-poster session: Prognosis and integrated management of COPD
Disease(s) : Sleep and breathing disorders  Airway diseases  Respiratory critical care  Pulmonary vascular diseases
Method(s) : General respiratory patient care  Public health  Respiratory intensive care  Physiology  Epidemiology  Pulmonary function testing  Imaging
Chairs: Wassim Labaki (Ann Arbor, United States of America), Marija Vukoja (Sremska Kamenica, Republic of Serbia)
Do doctors really use COPD Guidelines? A short adherence to guidelines survey
Radu Adrian Crisan-Dabija (Iasi (Iasi), Romania), Raluca Arcana, Cristina-Elena Mitrofan, Oana Rohozneanu, Andrei Cernomaz

Floppy eyelid syndrome in Obstructive Sleep Apeana: 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 (M1) comorbidity
Valentin Calancea, Constantin Martinuic, Ion Sirbu, Svetlana Nichita, Ecaterina Luca, Irina Cosciug, Nelea Ghicavii, Nicolae Bodrug, Sergiu Matovschi

Sleep quality assessment in chronic obstructive pulmonary disease
SONYA JRAD (Tunis, Tunisia), Imen Bachouch, Nidhal Belloumi, Racha 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, Andrade Da Silva

Defining the role of neutrophil-to-lymphocyte ratio in COPD patients
Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milic, Vladimir Zugic

Ascending pain pathway function in COPD patients versus healthy controls.
Maria Granados Santiago (Alcaudete, Spain), Janet Rodriguez Torres, Esther Prados Román, Laura López López, Maria Montes Ruiz-Cabello, Marie Carmen Valenza

Prevalence and clinical predictors of inhaler discordance in COPD: an observational study
Hadeer S. Harb (Beri-Suef, Egypt), Nabil Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim

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

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

COPD and respiratory viral infections as risk factors for the development of cardiovascular events
Maria De Los Angeles Zambrano Chacon (Madrid, Spain), Laura Esteban-Lucía, Aimhoj Izquierdo Pérez, Luis Nieto Roca, Ana Maria Venegas Rodríguez, Camila Sofia García-Talavera, Ana Maria Pello Lázaro, Alvaro Aceña Navarro, Felipe Villar Álvarez

Role of aerosolized therapy in the incidence of cardiac rythm disturbances in patients hospitalized with a COPD exacerbation
Francesca Frassanito (, Italy), Dejan Radovanovic, Luca Perotto, Silvia Vanni, Davide Raiteri, Maurizio Rizzi, Pierachille Santos

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 Garelio, Caterina Buca, Roberto Prota

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 Martínez Bautista, Karla Leticia Rosales Castillo, Lizbeth Luna Rodriguez, Arturo Orea Texeda, Casandra Pineda Sánchez, Martha Elena Quintero Martínez, Nathalie Martínez Luna
Relationship between health-related quality of life and cognitive function in patients with cardiorespiratory failure
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martínez, Viridiana Peláez Hernández, Karen Santillán Reyes, Arturo Orea Tejeda, Karla Rosales Castillo, Guadalupe Lizzbrett Luna Rodríguez, Rocio Sánchez Santillán, Valeria Martínez Vázquez, Oscar Martínez Reyna

Evaluation of pain pressure threshold in patients with moderate to severe symptomatic COPD and healthy controls
Maria Granados Santiago (Alcaudete, Spain), Janet Rodríguez Torres, Esther Prados Román, Laura López López, Maria Montes Ruiz-Cabello, Marie Carmen Valenza

Evaluation of the use of the Australian and New Zealand COPD guidelines (The COPD-X Plan) in clinical practice: a user survey
Juliet Brown (QUEENSLAND, Australia), Eli Dabscheck, Johnson George, Kelcie Herrmann, Susan C. Jenkins, Christine F. Mcdonald, Vanessa M. Mcdonald, Brian J. Smith, Nicholas Zwar, Ian A. Yang

Language difficulty and readability of web pages concerning acute cough treatment in children
Anna Komorowska-Piotrowska (Warszawa, Poland), Iryna Kononenko, Alla Adelghanova, Abdullah Aman, Joseph Ebbrell, Axel Jones, Nur Mohamad Safri, Marek Kulus

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

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

Confidence of thrombolysis and follow up of acute pulmonary embolus in the UK. A survey of UK respiratory trainees.
Michael Bridgett (Hassocks, United Kingdom), Brendan Madden

Obstructive sleep apnea knowledge and attitude among pulmonology training fellows in the Philippines
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

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, Alexandra Mineiro, Salvador Coelho, Paula Cravo, Luisa Figueiredo, Joao Cardoso

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

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

ASSOCIATION BETWEEN NEUTROPHIL AND PLATELET TO LYMPHOCYTE RATIO AND DISEASE SEVERITY IN STABLE COPD
Fabio Perrotta (San Nicola La Strada (CE), Italy), Vito D’Agnano, Mariano Mollica, Adriano Costigliola, Francesco Saverio Cerqua, Andrea Bianco, Bruno Moncharmont

Spirometry and cardiopulmonary exercise test in lung resection surgery
Nozha Ben Salah (Tunis, Tunisia), Hana Mrassi, Hana Bilbech, Houda Snen, Line Kaabi, Donia Belkhir, Asma Zaafouri, Nadia Mehiri, Bechir Louzir
The change of the activity of the blood-salivary barrier (BSB) in patients with COPD

Can reversibility determine clinical course in patients with COPD?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yurii Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytryiev, Mariia Shostatska

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

“Smoking” vs “non-smoking” COPD: how dramatic is the difference?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yurii Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytryiev, Mariia Shostatska

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

Evaluation of neutrophil lymphocyte ratio and C-reactive protein values in the treatment of acute chronic obstructive pulmonary disease exacerbation according to endotype
Emine Aksoy (Istanbul, Turkey), Sercan Dadaş, Barış Yılmaz, Hasibe Erten, Merve Hörmet, Güzide Tomas, Eylem Tuncay, Sinem Güngör, Özlem Moçin, Nalan Adıgüzel, Gökay Güngör, Zuhal Karakurt

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

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 Abdelmalekeh, Sany Kamoun

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

Relationship between peak inspiratory flow and handgrip strength measurement in men with mild COPD
Yuko Komase (Yokohama, Japan), Takahiro Tsuburai, Satoshi Tanaka, Baku Ohyama, Hiromi Muraoka, Naoya Hida, Takayuki Kobayashi, Masaya Matsushima

Study of heart rate variability in patients with chronic obstructive pulmonary disease
Umida Kamilova (Tashkent, Uzbekistan), Sobir Toshev, dilnoza tagaeva

Evaluation Of Vitamin B12 and D, Folic Acid and Homocystein Levels In Stable COPD Patients
Muzaffer Onur Turan (Izmir, Turkey), Nurhan Saydam, Pakize Ayse Turan, Özer Özdemir, Nevin Fazhoğlu, Mehmet Köseoğlu, Hayat Ozkanay, Özgür Güney, Arzu Mirici

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

E-poster session: Diagnostic and prognostic markers for disease-associated interstitial lung disease and hypersensitivity pneumonitis

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

E-poster session: Diagnostic and prognostic markers for disease-associated interstitial lung disease and hypersensitivity pneumonitis

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

Disease(s): Interstitial lung diseases  Respiratory critical care
Method(s): General respiratory patient care  Pulmonary function testing  Imaging  Epidemiology  Pulmonary rehabilitation  Cell and molecular biology  Physiology

Chairs: Veronica Alfieri (Parma (PR), Italy), George Margaritopoulos (London, United Kingdom)
**Immune alveolitis profile in bronchoalveolar lavage of infiltrative lung diseases: not just counting matters.**
Antoine Moui (Nantes, France), Stéphanie Dirou, Christine Sagan, Renan Liberge, Claire Defrance, Pierre-Paul Arrigoni, Olivier Morla, Christine Kandel-Aznar, Adrien Tissot, Emmanuel Eschappase, 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 Agusti, Sergio Prieto, José Ramírez, Marcelo Sánchez, Fernanda Hernández-Gonzáles, Jacobo Sellares

**Idiopathic pulmonary fibrosis and gastroesophageal reflux disease: A population-based case-control study**
Mishah 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 HVoden, May Brit Lund, Gisle Bjerke, Trygve Müller Jonassen, Odd Erik Johansen, Tone Sjåheim

**Factors associated with right ventricular dysfunction among patients with chronic hypersensitivity pneumonitis**
Elena Leonova (Moscow, Russian Federation), Evgeny Shmelev, Elena Shergina

**Evaluation of cardiac function by echocardiography in patients with interstitial lung disease, divided by ILD group**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Valeria Ariadna Martínez Vázquez, Arturo Orea Tejeda, Dulce González Islas, Martha Elena Quintero Martínez, Rocío Sánchez Santillan, Yael Ramiro Gastelum Ayala, Óscar Ubaldo Martínez Reyna, Ils Pérez García, Nathalie Martinez Luna, Leslie Verdeja Vendrell, Ivette Buendia Roldan, Mayra Mejía Avila, Robinson Robles Hernández, Alejandra Velázquez Montes

**Prognostic significance of pathologically proven chronic 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 Aguier, 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 Víceze, Noémi Eszes

**Progressive phenotype in primary Sjögren’s syndrome-associated interstitial lung diseases: Prognostic significance**
Reiko Sugawara (Osaka, Japan), Toru Arai, Chikatoshi Sugimoto, Kazunobu Tachibana, Masanori Akira, Takahiro Kasai, Seiji Hayashi, Yoshikazu Inoue

**Six-Minute Walk Test in Interstitial Lung Disease: various outcomes for various causes**
Khadija Ayed (Nabeul, Tunisia), Asma Chaker, Salma Mokaddem, Soumaya Khaldi, Saloua Benkahamsa 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, Silvia Pontis, Martina Bonatti, Barbara Pioselli, Caterina Fratt, Denise Madeddu, Federico Quaini, Costanza Lagrasta, Maurizio Civelli, Silvia Catinella, Gino Villetto, Marcello Trevisani

**Exhaled Volatile Organic Compounds are Able to Diagnose Systemic Sclerosis**
Julien Guiot (Liège, Belgium), Delphine Zanella, Pierre-Hugues Stefanuto, Laurie Giltay, Monique Henket, Francoise Guissard, Catherine Moermans, Florence Schleich, Renaud Louis, Jean-Francois Focant

**The Warrick score for the evaluation of chest CT scan manifestations of rheumatoid arthritis**
Houda Snène (Tunis, Tunisia), Monia Attia, Hana Mrassi, Hana Blibech, Nadia Mehiri, Ahmed Laater, Nozha Ben Salah, Bechir Louizir
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 Spìritò, Francesco De Simone, Sara Gioia, Pasquale Imitazione, Francesco Stefanelli, Giuseppe Fiorentino

Corticosteroids affect skeletal muscle strength in mild level of breathlessness of patients with interstitial lung disease
Masatoshi Hanada (nagasaki, Japan), Yuji Ishimatsu, Noriho Sakamoto, Hiroki Nagura, Masato Oikawa, Yosuke Morimoto, Hiroshi Mukae, Ryo Kozu

Pre-congress content

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 wietlik (Warszawa, Poland), 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), Shay Sherbo, Zhen Wang, Etienne Marie Jutant, David Montani, Barbara Girerd, Edmund Lau, Laurent Becquemont, Yoav Y. Broza, Hossam Haick, Marc Humbert

Pharmacologic characterization of GB002, a novel inhaled PDGFR kinase inhibitor in development for pulmonary arterial hypertension (PAH)
Anna Galkin (San Diego, United States of America), Ravi Sitapara, Bryan Clemons, Eduardo Garcia, Michael Kennedy, Laura Carter, Debbie Sée, Luisa Salter-Cid, Larry Zisman

GCN2 regulates BMP signaling: consequence for PVOD pathobiology and therapeutic management
Grégoire Manaud (Le Plessis-Robinson, France), Mélanie Lambert, Bahgat Soilih, Barbara Girerd, Florent Soubrier, Juliette Bignard, Olivier Claude, Florence Lecercf, Monica Florio, Banghua Sun, Sophie Nadaud, Stijn Verleden, Séverine Rémy, Ignacio Anegon, Olaf Mercier, Elie Fadel, Gérald Simonneau, 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 NM23R 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 Agueiro, Kenneth Fish, Kiyotake Ishikawa

HDAC inhibitor quisinostat reduces pulmonary vascular remodeling in experimentally induced pulmonary arterial hypertension
Xiao-Qing Sun (Amsterdam, Netherlands), Eva L Peters, Ingrid Schalij, Frances S De Man, Marie-José Goumans, Kondababu Kurakula, Harm-Jan Bogaard

Regulation of Type I cytokine receptors as a target for pulmonary arterial hypertension treatment?
Etienne-Marie Jutant (Paris, France), Ly Tu, Benjamin Le Vely, Raphael Thuillet, Marc Humbert, Christophe Guignabert, Alice Huertas

Loss of Bmp9 does not lead to spontaneous pulmonary hypertension, but attenuates vascular remodeling in experimental models
Nihel BERREBEH (Le Plessis-Robinsonillacoublay, France), Raphaël Thuillet, Ly Tu, Benjamin Le Vely, Amélie Cumont, Ignacio Anegon, Alice Huertas, Marc Humbert, Sabine Bailly, Christophe Guignabert

Role of c-Abelson in the loss of genome integrity in endothelial cells in pulmonary arterial hypertension
Benjamin Le Vely (Le Plessis-Robinson, France), Nihel Berrebeh, Carole Phan, Raphael Thuillet, Marc Humbert, Alice Huertas, Christophe Guignabert, Ly Tu
Effect of zamicastat, a dopamine beta-hydroxylase inhibitor, on the monocrotaline rat model of pulmonary arterial hypertension
Eduardo de Moura Correia (Utrecht, Netherlands), Cristina Costa, Bruno Igreja, Nuno Pires, Vânia Batalha, Maria-Joao Bonifacio, Patricio Soares-Da-Silva

Pulmonary arterial hypertension modeling with synthetic stable thromboxane A2 analogue (U46619) in swine: dose adjustment and acute hemodynamic reactions

SUR1/Kir6.2 potassium channel a new actor involved in pulmonary arterial hypertension
Hélène Le Ribeuz (Le plessis Robinson, France), Melanie Lambert, Angèle Boet, David Montani, Wendy K Chung, Marc Humbert, Fabrice Antigny

The modulatory effects of Nrf2 activators in a pulmonary arterial hypertension model
Jian Li (China), James Baker, Clare Murray, Nicky Cooper, Cathy Lucas, Dave Singh, Simon Lea

Hemodynamic and histological progression in the Sugen-Hypoxia Rat Model
Michel Corboz (Bridgewater, United States of America), Sandra Gagnon, Annie Bouchard, C Brodeur, Charles E Laurent, Dany Salvail, David Cipolla, Walter R Perkins, Richard W Chapman

Effects of Long Term Exogenous Apelin Application in Experimental Pulmonary Hypertension Model Created with Monocrotaline
ONDER OZTURK (Isparta, Turkey), Rahime Aslankoc, Mustafa Saygin, Y.Si̇nan Sirin

NGF induces pulmonary arterial hyperreactivity through connexin 43 increased expression
guillaume Cardouat (Talence, France), Matthieu Douard, Lukas Roubenne, Zuzana Kmecová, Paul Robillard, Christophe Guignabert, Ly Tu, Frederic Delcambre, Roger Martial, Bernard Muller, Christelle Guibert, Veronique Freund-Michel

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

E-poster session: Epidemiology, diagnosis and management of pulmonary embolism

Disease(s) : Pulmonary vascular diseases, Respiratory critical care
Method(s) : General respiratory patient care, Respiratory intensive care, Epidemiology, Public health, Imaging, Cell and molecular biology, Pulmonary function testing, Transplantation

Chairs : Nousheen Akhter (Karachi, Pakistan), Chair to be confirmed

Correlation between the cross-sectional area of the lung area and pulmonary haemodynamics in chronic thromboembolic pulmonary hypertension
Ayaka Kuriyama (Ichihara City, Japan), Hajime Kasai, Toshihiko Sugiura, Hiroshi Tajima, Yukiko Takahashi, Ayako Shigeta, Seiichiro Sakao, Koichiro Tatsumi

Agreement between transthoracic echocardiography and computed tomography pulmonary angiography for detection of right ventricular failure
Serhat Erol (Ankara, Turkey), Sumeyye Ayoζ, Aslihan Gurun Kaya, Fatma Ciftci, Aydin Ciledag, Zeynep Pinar Onen, Akin Kaya, Ozlem Ozdemir Kumbasar, Aysegul Gursoy, Melahat Kul

A multicentre observational study of the prevalence, management and outcomes of subsegmental pulmonary embolism
Christopher C. Huntley (Kingswinford (West Midlands), United Kingdom), Ketan Patel, Aishah Z Mughal, Vishnana Balbir Singh, Sunera Khan, Alice M Turner, Michael Newnham

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

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 Duran Barata, Ana Ana Retegui Garcia, David Jimenez Castro

Venous thromboembolism in solid-organ transplant recipients: findings from the RIETE registry.
Alberto Garcia Ortega (Valencia, Spain), Raquel López Reyes, Gabriel Anguera De Francisco, Gràcia 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, Sana Shahzad, Muhammad Badar Ganaie

Does platelet index examination provide clinical benefit in coexistence of pulmonary thromboembolism and cancer?
Nesrin Öcal (Ankara, Turkey), Ramazan Ocal

Dismantling the Obesity Paradox in Acute Pulmonary Embolism
Kam S Ho (New York, United States of America), Shabnam Nasserrifar, Paaras Kohli, Joseph Poon, Yasmin Herrera, Archana Pattupara, Andre Sotelo, Raymonde Jean

The profile of lung scintigraphy in systemic lupus erythematosus with chronic pulmonary embolism: a cross-section
Flávia Marín (Pato Branco, Brazil), Sonia Moriguchi, 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 Ozkiliç, Bahar Samli, Murat Yilmaz, Asli Suner Karakulah, Abdullah Sayiner

Hypercoagulability in patients with stable COPD assessed by coagulation factor levels
Chris Kyriakopoulos (Ioannina, Greece), Christos Chronis, Athena Tatsioni, Evangelia Papapetrou, Athena Gogali, Katerina Vaggeli, Christos Katsanos, Christina Tsaousi, Charikleia Tsalepi, Alekos Charisis, Maria Kosta, Aggeliki Spanou, Konstantinos Kostikas, Athanasios Konstantinidis

Venous thromboembolism prophylaxis in hospitals in China: a nationwide survey
Kaiyuan Zhen (Beijing, China), Fen Dong, Qian Gao, Cunbo Jia, Zhenguo Zhai

Identification of patients with intermediate-high-risk PE with poor evolution
Marta Acosta Davila (Valencia, Spain), Sergio Calvache Castillo, Cristina De 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 Bavalia, Karina Meijs, Peter Verhamme, Hugo Ten Cate, Jan Beyer-Westendorf, Sebastian Schellong, Barbara Hutten, Michael Kovacs, Marco Cattaneo, Waleed Ghanima, Amanda Hugman, Michiel Coppen, Marije Ten Wolde, Dominique Stephan, Nicolas Falvo, Dominique Brisot, Isabelle Quere, Saskia Middeldorp

Intermediate High Risk (IHR) PE: The value of a PE Lysis Team (PELT)
Charlotte Carter (London, United Kingdom), Thomas Mason, Boris Lams, Bhashkar Mukherjee, Narayan Karunanithy, Beverley Hunt, Karen Breen, Alex West

TEMPORAL RESOLUTION OF RIGHT VENTRICLE DYSFUNCTION IN PATIENTS WITH ACUTE SYMPTOMATIC PULMONARY EMBOLISM
Andrea Carolina Perez Figuera (Madrid, Spain), Beatriz Pintado, Edwin Mercedes, Francisco León, Carmen Rodriguez, Diurbis Velasco, Ana Retegui, Diego Durán, David Jiménez

Pre-congress content Session 00:00 - 23:59
E-poster session: Exploring exercise responses in respiratory diseases
Disease(s) : Airway diseases, Pulmonary vascular diseases, Interstitial lung diseases, Sleep and breathing disorders
Method(s) : Pulmonary function testing, Physiology, Pulmonary rehabilitation, Imaging, General respiratory patient care
Chairs : Chair to be confirmed
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

Energy cost of walking: Idiopathic Pulmonary Fibrosis vs COPD
Khadidia Ayed (Nabeul, Tunisia), Salma Moakaddem, Soumaya Khaldi, Asma Chaker, Saloua Benkhamsa Jameledine

Alterations in cardiovascular function in COPD and heart failure patients with sarcopenia
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Oscar Martínez Reyna, Arturo Orea Tejeda, Dulce Gonzalez Islas, Rocío Sanchez Santillan, Nathalie Martinez Luna, Yael Ramiro Gastelum Ayal, Ilse Perez García, Valeria Ariadna Martinez Vazquez, Itzel Ameayali Sandoval Sanchez, Martha Elena Quintero Martinez, Leslie Verdeja Vendrell, Teresa Suarez Landa, Juan Jose Orozco Gutierrez, Javier Mancilla Galindo

Mechanisms of exertional dyspnea in patients with mild COPD and low resting lung diffusing capacity for carbon monoxide (DLCO)
Matthew James (Kingston (ON), Canada), Kathryn Milne, J Alberto Neder, Denis O'Donnell
An exploratory comparison between the ratio of 1:2 legged cycling peak workload and other physical performance measures
Tom Ward (North Shields (Tyne and Wear), United Kingdom), 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 Bjermer, Linnea Jarenbäck, Stefan Petersson, Ellen Tutvesson, Göran Eriksson

Hemodynamic effects of high intensity interval training in COPD with hypoxemia.
Lars Aakerv (Trondheim, Norway), Ester Nørstebo, Karen Thomas, Knut Hegbom, Espen Holte, Eivind Brønstad, Sigurd Steinhann

Analysis of changes in clinical characteristics of patients with COPD or interstitial pneumonia during a 6-minute walk test
Atsushi Ogi (Osaka, Japan), Taisuke Enoki, Tetsuya Matsumoto, Kenichi Ito, Gaku Shimizu, Miyuki Okuda, Nobuya Tanaka, Koji Fukuda, Ryuji Nohara

The link between dynamic hyperinflation, autonomic dysfunction and exercise testing parameters with masked heart failure in patients with non-severe obstructive pulmonary disease
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

COPD attenuates NK and TReg cell mobilization following high-intensity interval exercise
Asghar Abbasi (Torrance, United States of America), Valentina Sanghez, 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 Lozzredo, Daniele Pastori, Anna Paola Iori, Luisa Quattrocerchi, Matteo Salvini, Alessandra Napoli, Daniel Piamonti, Paolo Palange

Cardiopulmonary response to stair climbing in patients with dysfunctional breathing
Karina Siewers (Copenhagen, Denmark), Emil Schwarz Walsted, Bishman Manivannan, Christopher Warren, Colm Mccabe, James H Hulal

Objective criteria to characterize an erratic breathing pattern in dyspnoeic patients undergoing cardiopulmonary exercise testing
Talmir Nolasco (Porto Alegre, Brazil), Nathalia Mendes, Franciele Plachi, Ricardo Gass, Marcelo Nogueira, Marcelo B. Gazzana, J Alberto Neder, Danilo C Berton

Relationship between body mass index and exercise hyperpnea response (VE/VCO2) in unfit patients with unexplained dyspnea
Behdad Boroofeh (Tehran, Islamic Republic of Iran), Mehrnaz Asadi Gharabaghi, Masoumeh Azadi, Shahideh Amini

Predictors of exercise-induced airways obstruction in patients with mild asthma.
Maroon Salameh (Italy), Laura Pini, Federico Quad, Fabio Spreafico, 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: 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
Late Breaking Abstract - Effect of asthma gymnastic on blood nitric oxide, mood, energy expenditure and sex quality
Yusup Subagio Sutanto (Surakarta, Indonesia), Ita Juliastuti, Debree Septiawan, Dewi Nurul Makhabah, Suradi Suradi

Late Breaking Abstract - Usefulness of diaphragmatic ultrasound to evaluate the efficacy of EzPAP during the respiratory rehabilitation in post extubated COVID-19 patients
Anna Filomena Ferravante (Roma (RM), Italy), Francesca Plazzi, Ilaria Valentini, Susanna Mascetti, Alessia Fabiano, Stefania Pezzi, Andrea Massoni, Eva Bernardi, Luigi Arcangelo Lazzari Agli

Barriers to pulmonary rehabilitation in a private hospital in Brazil: a physician survey study
Fernanda Gushken (São Paulo, Brazil), Thaiz C. Colognese, Maira T. Rodrigues, Mayra Zanetti, José Luiz Bonamigo-Filho, Luciana D. N. J. De Matos, Luiza Helena Degani-Costa

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

A Breath of Fresh Air
Andrew Levy, David Barber, Dennis Wat, Sarah Sibley

Impact of six week hospital based Pulmonary Rehabilitation programme in patients with post Pulmonary Tuberculosis sequelae: Initial results from a hospital based longitudinal study
Aqeel Hussain (Baramulla, India), Alkesh Khurana, Rajkrishman Soman, Abbashek 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 (Leiden, Netherlands), Rupert Jones, Wenceslaus Katagira, Bruce Kirenga, An Le Pham, Nguyen Ngoc Minh, Marilena Anastasakis, Ioanna Tsiliogianni, Christos Lions, Talant M. Sooronbaev, Niels Chavannes, Sally Singh

Assessing the knowledge and enthusiasm for Pulmonary Rehabilitation in Uganda: Global RECHARGE
Wenceslaus 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 Oleinik, Aidai Rysbek Kyzy, Rupert Jones, Andy Barton, Dominic Malcolm, Talant Sooronbaev, Sally Singh

Can a COPD pharmacist reduce out-patient clinic non-attendance rates?
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 Lana, Philippe Giroud, Isabelle Peytemann-Bridevaux, Milo Puhu

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), Maria Elena Toutes Navarro, Pablo Mascareñas Pazos, José Manuel García Pazos, José Manuel Álvarez Dobaño, Jorge Ricoy Gabaldón, Ana Casal Mouriño, Luis Sanz Anchelegures, Luis Valdés Cuadrado

A cute exacerbations of chronic obstructive pulmonary disease (AE-COPD): A qualitative exploratory study of patients’ needs following discharge
Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh

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 Fonbe, 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? ACTIVEP OC 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
Assessing bronchodilator response in patients with asthma and COPD using 19F-MRI
Benjamin Pippard (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Ian Forrest, Ian Sabroe, Rod Lawson, A John Simpson, Jim Wild, Pete Thelwall

The frequency of the errors in the interpretation of digital radiographs of the chest by radiologists when detecting nodule and mass in the lungs.
Uliana Smolnikova (Saint Petersburg, Russian Federation), Alexey Ushkov, Pavel Gavrilov

Evaluation of dissemination activity in pulmonary diseases
Rasul Amansahedov (Moscow, Russian Federation), Lyudmila Dmitrieva, Natalya Karpina, Larisa Lepekhina, Raxana Kazho, Anatoliy Sigaev, Anastasiya Borisova, Atadzhan Ergeshov

Quantitative assessments for lung hyperinflation and chest wall geometry change by dynamic breathing MRI in patients with COPD
Ayako Shimada (Chiba, Japan), Naoko Kawata, Hirotaka Sato, Jun Ikari, Eiko Suzuki, Rie Anazawa, Masaki Suzuki, Yoshitada Masuda, Hideaki Haneishi, Koichiro Tatsumi

Pre-congress content
Session 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 : Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Chair to be confirmed

A single centre's real world experience with Rocket® Pleural Vent™ for treating pneumothorax
Michael Ball (Salisbury, United Kingdom), Suresh Babu, Adam Wallis, Louise Newman, Anna Lithgow

Indwelling pleural catheters for refractory transudative effusions: a tertiary centre experience
Vineeth George (Oxford, United Kingdom), Robert Hallifax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendraraaj, Najib Rahman

Efficacy And Safety Of Thoracoscopic Cryobiopsy In Patients With Undiagnosed Exudative Pleural Effusion
Tamer Ali El-Hadidy (Mansoura, Egypt), Ahmed Mansour, Raed Ali, Tamer El Sayed

Oncodrivers in malignant pleural effusions associated with non-small cell lung cancer
Katrine Fjællegaard (Frederiksberg, Denmark), Jesper Petersen, Ashjorn Hoegholm, Paul Frost Clementsen, Uffe Bodtger

Utility of ultrasound-guided pleural biopsy in guiding treatment for malignant pleural disease
Vineeth George (Oxford, United Kingdom), Robert Hallifax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendraraaj, Najib Rahman

IPFT (Streptokinase) in septated/loculated pleural effusion with failed tube drainage is still relevant in developing countries: A Case-control study
Rajat Kumar Agarwal (Bareilly (Uttar Pradesh), India), Rajesh Agrawal, Aseem Rajpal

Blind pleural biopsy in the study of undiagnosed pleural effusion: results and complications
Mariana Barreira Calheiros Barbosa Cabral (Porto, Portugal), Dionisio Maia, Ana Magalhães, Bruno Mendes, Carlos Figueiredo, Sofia Santos, Nicole Murinello, Rita Gerardo, Alexandra Mineiro, João Cardoso

Medical thoracoscopy in patient with the absence or a small amount of pleural effusion: medical thoracoscopy in patient with the absence or a small amount of pleural effusion
Kaige Wang (, China), Fengming Luo, Panwen Liu, Dan Liu, Peng Sun, Yanlin Zhang, Haiyan Lu

Ambulatory pneumothorax with 8FG Rocket® Pleural Vent™ : setting up a service and probable safety in secondary pneumothoraces
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson

Chest drain insertion documentation: if it wasn’t written it didn’t happen
Mphatso Wirima (Norwich, United Kingdom), Asif Mahmood, Faraz Sonde, Luaie Idris

Endobronchial valves for emphysema are effective in patients with moderate hyperinflation in the presence of a clear target lobe
Karin Klooster (Groningen, Netherlands), Jorine E. Hartman, Dirk-Jan Slebos

Impact of endobronchial valves treatment on gas exchange in emphysema
Marlies van Dijk (Groningen, Netherlands), David Koster, Karin Klooster, Jorine Hartman, Dirk-Jan Slebos
Lung volume reduction surgery after endobronchial valve treatment
Marlies van Dijk (Groningen, Netherlands), Karin Klooster, Jorine E. Hartman, T. David Koster, Caroline Van De Wauwer, Dirk-Jan Slebos

Lung functional predictors of improvement in exercise capacity and quality of life after lung volume reduction by endobronchial valves
Stephanie Everaerts (Leuven, Belgium), Astrid Blondeel, Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens

Human infection with zoonotic agent and COPD exacerbation in late course of endoscopic lung-volume reduction
Aurélien Gonze (, Belgium), Richard Frognier, Afshin Rezazadeh, Adeline Rosoux

Quantitative CT analysis of fissure integrity and emphysema heterogeneity for one-way valve treatment; Analysis in Japanese COPD patients
Masamichi Mineshita (Kawasaki (Kanagawa), Japan), Hiroki Nishine, Hiroshi Handa, Hirotaka Kida, Naoki Furuya, Kei Morikawa

Arterial blood gases changes after endoscopic lung volume reduction
Mostafa Bakeer (Mansoura, Egypt), Marina Duller, Kelly Groß, Georg-Christian Funk, Arschang Valipour

Pre-congress content

**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**
Małgorzata Farnik (Katowice, Poland), Dorota Brzostek

**Late Breaking Abstract - Compare outcomes between COPD patients treated with Tiotropium/Olodaterol (TIO/OLO) and other fixed-dose LAMA/LABAs**
Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston

**Clinical features of eosinophilic COPD**
Askin Gülsen (Izmir, Turkey), 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-ß1) level as a marker of COPD severity**
Daria Koval (Dnipropetrovsk, Ukraine), Tetyana Pertseva

**Prevention of COPD exacerbations using nebulization with an electrolytic silver solution**
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Elena Bogdanova, Alexander Emelyanov, Anatoliy Fesyun, Gleb Barashkov, Anfisa Nikitina, Andrei Popov

**Factors associated with exacerbations in patients with COPD: NOVELTY study**
Hana Müllerová (Ickenham, United Kingdom), Bo Ding, Elein Rapsomianiki, Richard Beasley, J Mark Fitzgerald, Tim Harrison, Rod Hughes, Joe Maria Olagiuvel, Helen K Reddel, Precil Varghese, 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 (Vinnitsia, Ukraine), Szymon Skoczyński, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobczyk, 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**
MURILO OLIVEIRA (São Carlos, Brazil), Càssia Goulart, Guilherme Peixoto, Poliiiana Santos, Patricia Camargo, Renata Mendes, Flávia Caruso, Audrey Borghi-Silva

**Early signs of COPD in 42 years old individuals with severe alpha-1-antitrypsin deficiency**
Georg Schramm (Trelleborg, Sweden), Eeva 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, Joel Pon, Chantal Raherison-Semjen

Diagnostic value of N-terminal pro-brain natriuretic peptide in patients with COPD with chronic hypoxemic respiratory failure.
Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Darya Sklyarova, Vladimir Volchkov, Elizaveta Volchkova

Association between right heart failure and endothelial dysfunction in COPD patients
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Yael Ramiro Gastelum Ayala, Rocio Sanchez Santillan, Arturo Orea Tejeda, Dulce Gonzalez Islas, Ilse Perez Garcia, Oscar Ubaldo Martinez Reyna, Nathalie Martinez Luna, Valeria Ariadna Martinez Vazquez, Martha Elena Quintero Martinez, Silvia 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 Reyina Martinez, Valeria Ariadna Martínez Vázquez

Are the mMRC dyspnea scale of 2 and a CAT score of 10 equivalent as proposed by the GOLD strategy?
Virginia Moya Alvarez (Madrid, Spain), Juan Luis Quevedo Marín, María Betrán Orduna, Zichen Ji, María Fernando Moreno, Alfonso Pérez Trullen , Javier De Miguel-Diez

Factors affecting survival after severe COPD exacerbations: a single-center experience.
Mariaenrica 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 Hhidène, Hager Ben Abdelghaffar, Hanen Smadhi, Dorra Greb, Ines Akour, Hela Hassene, Leila Fekih, Mohamed Lamine Megdiche

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

E-poster session: Intercellular communication in tissue remodelling of chronic lung diseases

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

Chairs: Tania Maes (Ghent, Belgium)

Association between microbiome and plasma proteome profile in COPD
Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Thong Cao, Omer Elneima, Hamish Mcauley, Vijay Mistry, Koirebi Haldar, Michael Barer, Leong Ng, Christopher Brightling

Mouse tracheal epithelial cells (mTECs) for the study of influenza A infection
Fawaz ALJuhani (Sheffield , United Kingdom), Priyanka Anujan, Lynne Bingle , Colin Bingle

Comparison of the effectiveness of azithromycin and budesonide versus theophylline and budesonide in the suppression of pro-inflammatory cytokines in patients with COPD
Aliaksei Kadushkin (Minsk, Belarus), Anatoli Tahanovich, Tatiana Kolesnikova, Elena Hodosovskaya

Evaluation of mitochondrial dysfunction of mononuclear leukocytes of smokers and ex-smokers in COPD exacerbation
Eduard Belskikh (Lipetsk, Russian Federation), Sabina Akhmedova, Natalia Popko, Oleg Uryasev, Valentia Zvyagina, Olga Zhurina, Valery Demikhov

Lung tissue multi-omics integration in copd
Maria Rosa Faner Canet (Barcelona, Spain), Nuria Olivera, Guillaume Noell, Sandra Casas-Recasens, Alejandra López-Giraldo, Angela Guirao, Alvar Agustí

THE GENE SIGNATURE OF LUNGS FROM GUINEA PIGS EXPOSED TO CIGARETTE SMOKE OVERLAPS WITH THAT OF HUMAN WITH COPD
Adelaida Bosacoma Armora (Barcelona, Spain), Daniel Aguilar, Tanja Paul, Isabel Blanco, Olga Tura- Ceide, Joan Albert Barberà, Victor I. Peinado
Copy Number Variation (CNV) in Chronic Obstructive Pulmonary Disease (COPD) with and without ongoing smoking
Anjali Trivedi (New Delhi (Delhi), India), Anjana Talwar, Meghashree Sampath, Debabrata Ghosh, Randeep Guleria, Geetanjali Bade

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 Passalaqua, Roberto Pedrinelli, Pierlugi Paggiaro, Paola Nieri, Alessandro Celi

Prediction of human orthologs to the Drosophila’s COPD-associated genes.
Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis

LSC - 2019 - Longitudinal effect of smoking cessation on transcriptomics and epigenetics in the airways of COP D patients and asymptomatic controls

Biomarkers to predict FEV1 decline in smokers and early-onset COPD.
Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José Maria Marin Trigo, Ciro Casanova Macario, Borja García-Cosio Piqueras, Isabel Mir Viladrich, Ingrid Solanes Garcia, 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, LuisAlejandro Padrón Fraysse, Eduardo Marquez Martin, Margarita Marín Royo, Eva Balcells Vilarnau, Antonio Llunell Casanovas, Cristina Martinez Gonzalez, Juan Bautista Galdiz Iturri, Celia Lacárcel Bautista, Sandra Garcia Garrido, Germán Peces-Barba

Gene expression profile of human lung according to aging
Ina Jeong (Seoul, Republic of Korea), Jae-Hyun Lim, Jin-Soo Park, Yeon-Mok Oh

Versatile workflow for storage, characterization and cell-type resolved transcriptional and epigenetic profiles of human lung samples (LSC-2020).
Renata Jurkowska (Cardiff (Wales), United Kingdom), Maria Llamazares, Elisa Espinet, Vedrana Mijosek, Uwe Schwartz, Sebastian Waszak, Pavlo Lustik, Raluca Tamas, Mandy Richter, Annika Behrendt, Stephanie Pohl, Naja Benz, Thomas Muley, Arne Warth, Claus Peter Heußel, Felix Heather, Timmer Mertens, Harry Karmouty-Quintana, Ina Koch, Vladimir Benes, Jan Korbel, Andreas Trump, David Wyatt, Heiko Stahl, Christoph Plass

MicroRNA-26a expression in exhaled breath condensate correlates with pulmonary exacerbation in cystic fibrosis
Zuzanna Stachowiak (Poznan, Poland), Irena Wojsyk-Banaszak, Katarzyna Jończyk-Potoczna, Joanna Goździk-Spychalska, Kamila Sobczak, Beata Narożna, Anna Breborowicz, Aleksandra Szczepankiewicz

Glucocorticoid signaling genes are altered in asthma subgroups - A potential role for mRNA-miRNA interactions
Julie Weidner (Göteborg, Sweden), Carina Malmhäll, Aidan Barrett, Huda Hasan, Emma Boberg, Linda Ekerljung, Madeleine Rådinger

RNA sequencing in bronchial biopsies of wheezing infants developing asthma at school age reveals epithelial dysfunction
Elín Kersten (Haren GN, Netherlands), Kristiina Malmström, Cornelis Vermeulen, Cheng-Jian Xu, Maarten Van Den Berge, Martijn Nawijn, Mika Mäkelä, Gerard Koppelman

Osteopontin and interleukin-6 as biomarkers of interstitial lung disease
SARA REMÚZGO MARTINEZ (SANTANDER, Spain), David Iturbe Fernandez, Victor M. Mora Cuesta, Verónica Pulito-Cueto, Sonia M Fernández Rozas, Leticia Lera-Gómez, Belén Atienza-Mateo, Raquel López-Mejías, Miguel A González-Gay, José M Citrián

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

Pre-congress content Session 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, Physiologic, Transplantation, Respiratory intensive care, Public health

Chairs: Fabrizio Luppi (Modena, Italy), Stephanie Everaerts (Leuven, Belgium)
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

Late Breaking Abstract - HRQol and other health related variables of Spanish COPD patients
Maite López (Barcelona, Spain), Nina Granel, Purificación Jordana-Ferrando, Francesc Orfila, Adrià Almazor, Dolors Miguel, M. Angeles Santos, Esther Ruiz, M.Jesús Vazquez, Guadalupe Ortega, Marta Chuecos, Leandra Dominguez

Maternal and fetal problems during pregnancy in patients with non-cystic fibrosis bronchiectasis
Sermin Borekci (Istanbul, Turkey), Bahar Kubat, Gizem Senkardesler, Benan Musellim

Identifying inconsistencies in inpatient bronchiectasis management at a large university teaching hospital
Louise Crowley (Birmingham (England), United Kingdom), Mohammad Mirza, Alice Gray, Farrukh Rauf

Prospective evaluation of cardio-metabolic comorbidities in a cohort of patients with non-cystic fibrosis bronchiectasis.
Valentine Bonnefoy (Paris, France), Laurent Boyer, Etienne Audureau, Laurence Bassinet, Sonia Zebachi, Benoit Douvry, Isabelle Monnet, Gilles Mangiapan, Amel Boudjemaa, Caroline Touboul, Laura Ermande, Bruno Housset, Bernard Maitre, Frederic Schlemmer

Palliative care on non-oncologic patients in a pulmonology ward - a three year review
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloisa Silva, Teresa Shiang, Manuela Vanzeller, Ana Paula Costa, Mârcia Oliveira, Ricardo Fernandes, Carla Ribeiro

Platypnea-Orthodeoxia syndrome, a rare case of unexplained hypoxemia
Grazia Mazzeo (Pozzuoli, Italy), Matilde Boccia, Valentino Allocca, Sergio Padula, Giancarlo Scognamiglio, Rosario Salvi, Gennaro Mazzarella, Andrea Bianco, Francesco Saverio Cerquà

Monitoring steroid-induced hyperglycaemia in respiratory inpatients
Gerald Riordan (Forest Lodge, Australia), Belinda Cochrane

Selection of blood samples in studies of respiratory diseases related to macrophage migration inhibitory factor
Hui-Yuan Zhu (Zhengzhou, China), 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

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

Impeding progress or a useful test? Impedance studies in paediatric respiratory patients
Louise Selby (Cambridge (Cambridgeshire), United Kingdom), Robert Heuschkel

Impact of a dedicated specialist pleural in-reach service in a large teaching hospital
Sofian Youssef (Stafford, United Kingdom), Sana Iftikhar, Syed Zaidi, Tess Husay, Mariet Antony, Shiva Bikmalla, Aka Abi Musa Asa’Ari, Muhammad B Ganaie, Muhammad Iqbal, Nadeem Maddekar, Shahul Khan, Mohammed Haris

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

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

Chronic breathlessness and activities forgone: a cross-sectional, population prevalence study
Slavica Kočovska (Sydney, Australia), Sungwon Chang, Deidre Morgan, Diana Ferreira, Manraaj Sidhu, Rayan Saleh Moussa, Miriam Johnson, Magnus Ekström, David Currow

Perspective on the etiology of catamenial pneumothorax
Takafumi Kabuto (Kobe, Japan), Hiroshi Hamakawa, Takashi Indo, Yutaka Shishido, Akihiro Aoyama, Shigeki Hara, Yutaka Takahashi

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

The Role of Barium Swallow in Determining the Aetiology of Bronchiectasis. A Retrospective Review.
Christina D. Campbell (Dublin 6, Ireland), Robert M. Rutherford
Pre-congress content

**Session** 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 diseases

**Method(s):** General respiratory patient care, Public health, Respiratory intensive care, Epidemiology, Palliative care, Pulmonary rehabilitation

**Chairs:** Robab Breyer-Kohansal (Wien, Austria), Chair to be confirmed

**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 (Seligenthal, Germany), Stefanie Rödig

**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

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**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:** Lieuwe D.J. Bos (Amsterdam, Netherlands), Chair to be confirmed

**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

**Late Breaking Abstract - Non-interventional monitoring of expiratory flow limitation during experimental mechanical ventilation**

Giorgos Marinakis (Nea Smirni, Greece), Michael Paraschos, Maria Patrani, Theodoros Tsoutsouras, Athanasia Kotrotsou, Milos Vassiliou

**Uni- and bilateral diaphragm paralysis: an animal model**

Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Peter Frykholm

**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

**Prognostic value of plasma level of high mobility group box-1 in sepsis and septic shock**

Hongseok Yoo (Seoul, Republic of Korea), Jin Young Lee, June Sun Park, Chaiyoung Lee, Kyeongman Jeon

**Diagnostic utility of serum KL-6 levels in acute respiratory failure with bilateral pulmonary infiltrates**

Megumu Osaki (Kobe, Japan), Ryo Tachikawa, Yusuke Shima, Yuki Shimada, Atsushi Matunashi, Kazutaka Hosoya, Ryosuke Hirabayashi, Yuki Sato, Kazuma Nigata, Atsushi Nakagawa, Keisuke Tomii

**In-Vitro evaluation of the performance of some large volume spacer versus T-adapters**

Haitham Saeed ( Fayoum, Egypt), Elnady M.A, Hoda Rabea, Salah M.Seif, Mohamed E. A. Abdelrahim

**Inhibition of nitric oxide production during inflammation associated with hypoxemia reduces the survival after apnea in rats.**

Elizaveta Baranova (St. Petersburg, Russian Federation)

**NADPH oxidase 4 signaling in a ventilator-induced lung injury mice model**

Mi Hwa Shin (Seoul, Republic of Korea), Ji Soo Choi, Eun Hye Lee, Ju Hye Shin, Sang Hoon Lee, Moo Suk Park
**Serum bilirubin/fetuin-A ratio in critically ill septic patients: a prospective study**
Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, George Skyllas, Panagiotis Simitsis, Gerasimos Socrates Christodoulou, Evangelia Kandri, Apostolos Armanagidis, Maria Dalamaga

**C-reactive protein/albumin ratio as a prognostic biomarker in critically ill septic patients: a prospective study**
Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, Panagiotis Simitsis, George Skyllas, Gerasimos Socrates Christodoulou, Evangelia Kandri, Apostolos Armanagidis, Maria Dalamaga

**RAGE expression in lung tissue of ARDS and septic patients**
Natália de Souza Xavier Costa (São Paulo, Brazil), Giovana Da Costa Sigrist, Marisa Dolhnikoff, Luiz Fernando Ferraz Da Silva

**Alterations in serum lipid profile in critically ill septic patients: a prospective study**
Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, George Skyllas, Panagiotis Simitsis, Gerasimos Socrates Christodoulou, Evangelia Kandri, Apostolos Armanagidis, Maria Dalamaga

**Lung-protective mechanical ventilation for 50 hours activates hippocampal astrocytes**
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Marlena Ornowska, Karl Fernandez, Michelle Nicholas, Steve Reynolds

**Novel swine ARDS model induced by Pseudomonas aeruginosa pneumonia and VILI**
Ana Motos Galera (Barcelona, Spain), Enric Barbeta, Joaquim Bobi, Hua Yang, Minlan Yang, Giacomo Tanzella, Roberto Cabrera, Carmen Rosa Vargas, Pierluigi Di Ginnatale, Stefano Nogas, Marta Arrieta, Laia Fernandez-Barat, Ricard Mellado,Montserrat Rigol, Gerard Frigola, Miguel Ferrer, Gianluigi Artigas, Antoni Torres

**Relative performance of nebulizers used in acute care wards**
Lois Slator (Southampton, United Kingdom), Adam Metcalf, Dirk Von Hollen, Steven P. Cowley, Lucy E. A. Hardaker

**Effect of I:E ratio on the respirable delivered dose from nebulizers**
Lois Slator (Southampton, United Kingdom), Adam Metcalf, Dirk Von Hollen, Steven P. Cowley, Lucy E. A. Hardaker

**Nonsteroid anti-inflammatory agents depress inflammation-related respiratory disorders and hypoxia-induced mortality. Experimental model.**
Zhanna Donina (St. Petersburg, Russian Federation)

**Thoracic skeletal muscle quantification for sarcopenia in elderly ICU patients**
Sungwoo moon (Seoul, Republic of Korea), Su Hwan Lee, Ah Young Leem, Mook Suk Park, Young Sam Kim, Kyung Soo Chung

### Pre-congress content

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

**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)

**Temporal trends in costs of care for cystic fibrosis in France**
Eric Van Ganse (Lyon, France), Faustine Dalon, Lydie Lemonnier, Clémence Dehillionte, Quitterie Reynaud, Marjorie Bérard, Déborah Walther, Manon Bellhassen, Isabelle Durieu

**Screening of Depression and Anxiety Disorders in Cystic Fibrosis Patients and Their Parents**
Pinar Ergencok (Istanbul, Turkey), Cansu Yilmaz Yegit, Hakan Mursaloglu, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Bulent Karadayi

**Should the D1152H variant be included in cystic fibrosis newborn screening programmes?**
Carwyn Daflwydd (Cardiff, United Kingdom), Kevin W. Southern, Stuart Moat, Iolo J.M. Doull

**Cystic fibrosis newborn screening for R117H in England**
Carwyn Daflwydd (Cardiff, United Kingdom), Stuart Moat, Kevin W. Southern, Iolo J.M. Doull

**Description of new CFTR gene’s mutations in patients of Russia**
Yulia Gorinova (Moscow, Russian Federation), Kirill Savostyanov, Olga Simonova, Stanislav Krasovskyi

**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
CFTR mutations unidentified in CFTR2 database and their phenotypic characteristics: Data from cystic fibrosis registry of Turkey


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

Clinical presentation in CF patients with large deletions

Guergana Petrova (Sofia, Bulgaria), Nadezhda Yaneva, Malgorzata Libik, Dimitrinka Mitева, Boriana Gospodinova, Margarita Nikolova, Penka Perenovska, Milan Macek Jr, Alexey Savoy

Spectrum of CFTR mutations in Republic of North Macedonia

Stojka Fustik (Skopje, North Macedonia), Dijana Plaseska Karanfilska, Marija Terzikj, Ljubica Spirevska, Ana Stamatova

Bioenergetics of breathing in children with cystic fibrosis: a thermodynamic study

Jale Çatak (İstanbul, Turkey), Elif Develi, Serkan Bayram

Dehydration and electrolyte imbalance: a common presenting manifestation of cystic fibrosis in Cyprus

Pinelopi Anagnostopoulou (Nicosia, Cyprus), Matthais Matthaiou, Panayiotis Kouis, Vassos Neocleous, Tonio Adamidi, Phivos Ioannou, Pavlos Fanis, Constantina Costi, Andreas Georgiou, Leonidas A. Phylactou, Panayiotis Yiallouros

Low-dose chest CT for bone mineral density in pediatric patients with cystic fibrosis

Leonardo Pinto (Porto Alegre (RS), Brazil), Rubens Andrade, Gabriele Forte, Bruno Hochhegger

Midregional proadrenomedullin in patients with cystic fibrosis lung disease: a pilot study

Vassily Shmarin (Moscow, Russian Federation), Daria Pukhalskaya, Tatiana Kuznetsova, Stanislav Krasovsky, Sergey Semykin, Maria Usacheva, Galina Shmarina, Vladimir Alioshkin

PLEURO-PULMONARY COMPLICATIONS IN PATIENTS WITH CYSTIC FIBROSIS

Ludmila Balanetchi (Cluj-Napoca (Cluj), Romania), Rodica Selevestru, Eva Gudumac, Svetlana Sciuca

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

Expression and function of murine WFDC2 in the respiratory tract.

Lynne Bingle (Sheffield (South Yorkshire), United Kingdom), Hannah Armes, Colin Bingle

Epidemiology and factors associated with overweight in adults with cystic fibrosis: an Italian multicenter experience.

Andrea Gramengia (Milano (MI), Italy), Stefano Alberti, Martina Contarini, Daniela Savi, Fabiana Ciciriello, Fabio Maio, Vincenzina Lucidi, Paolo Palange, Francesco Blasi
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 (, Italy), Carla Maria Irene Quarato, Donato Lacedonia, Giulia Scioscia, Pasquale Tondo, Angelamaria Giardinelli, Ernesto Giuffredi, 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 Martín Medina, Orlando Acosta Fernández, Nuria Mañes Bonet, Juan Bautista Ruiz-Alzola, Javier González-Fernández

Transthoracic Shear Wave Elastography (SWE) in lung subpleural lesions: a preliminary report
Carla Maria Irene Quarato (Foggia, Italy), Mariapia Venuti, Donato Lacedonia, Lucia Dimitri, Anna Simeone, Salvatore De Cosmo, Anna Del Colle, Maria Pia Foschino Barbaro, Marco Sperandeo

Vertical Artifacts in Lung Ultrasoundography
Andrea Smargiassi (Roma (RM), Italy), Gino Soldati, Libertario Demi, Riccardo Inchingolo

Clinical applications of contrast-enhanced thoracic ultrasound (CETUS) compared to standard reference tests: a systematic review
Niels Jacobsen (Odense M, Denmark), Lars Konge, Pia Iben Pietersen, Christian Pálsson 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 Shiroshta, Yu Tanaka, Yan Luo, Yuki Kataoka, Kei Nakashima

Diaphragm ultrasound examination before and after fluid drainage in patients with malignant pleural effusion
Olalla Castro-Anon (, United Kingdom), Maged Hassan, 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 Roti, Lina Zuccastota, Eihab O Bedawi, David Mccriken, 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 Sharhar (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 Martínez Muñiz, Iker Fernández Navamuel Basozabal, Javier Flandes Aldeyturriaga

The utility of ultrasonographic lymph node characteristics on EBUS-TBNA to differentiate mediastinal lymphadenopathy due to TB from Sarcoidosis in a TB endemic setting
Manu Madan (New Delhi (Delhi), India), Saurabh Mittal, Pavan Tiwari, Anant Mohan, Vijay Hadda, Randeep Guleria, Sudheer Arava, Deepali Jain, Rm Pandey, Karan Madan

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 (Taiichang, 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
Hongseok Yoo (Seoul, Republic of Korea), Byung-Woo Jin, Byeong-Ho Jeong, Kyungjong Lee, Sang-Won Um, O Jung Kwon, Man Pyo Chung

Pre-congress content

Session 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), Chair to be confirmed
Identification and morphological features of non-tuberculous mycobacteriosis of patients operated on for pulmonary tuberculosis
Vilayat Aliev (Moscow, Russian Federation), Larisa Lepeha, Tatyanra Smirnova, Anna Sargsyan, Natalya Makaryants, Elena Krasnikova, Mamad Bagirov

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

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

Differential diagnosis of destructive pulmonary tuberculosis in real clinical practice
Natalya Karpina (Moscow, Russian Federation), Ruslan Asanov, Irina Shabalina, Ekaterina Shishkina, Atadzhan Ergeshov

Phenotyping and treatment of endobronchial Tuberculosis: A Case Series
Shubham Sharma (Jaipur (Rajasthan), India), Alok Gopal Ghoshal, Shyam Krishnan, Praveen Kumar Shahi, Raja Dhar

Research of apoptosis of bronchial epithelial cells in multidrug-resistant tuberculosis
Yeremenchuk Inga (Chernivtsi, Ukraine), Todoriko Lilii, Semianiv Ihor

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

Characteristics of smear-positive pulmonary tuberculosis patients with delayed diagnosis
Chie Yamamoto (Fukuchiyama Kyoto, Japan), Atsushi Kawashima, Ryo Sawada, Shun Futamura

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

Different antimycobacterial activity of macrophages in various lung tuberculosis legions of patients
Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva, Diana Vakhrusheva, Sergey Skornyakov

Mycobacterium tuberculosis modulates mitochondrial function in human macrophages
Claudio Bussi (London, United Kingdom), Mariana Silva Dos Santos, Elliott M. Bernard, Pierre Santucci, James I. Macrae, Maximiliano G. Gutierrez

Age is more predictive value than occupational TB exposure of latent tuberculosis infection in healthcare workers in intermediate tuberculosis burden countries
Eun Hye Lee (Seoul, Republic of Korea), Ji Soo Choi, Mi Hwa Shin, Yong Ae Kang

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

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

New in vitro model of Mycobacterium tuberculosis dormancy
Yana Batyrshina (Novosibirsk, Russian Federation), Yakov Schwartz

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,Josefina Sabria Mestres, Luis Anibarro Carrasco, Angel Dominguez Castellano, Anton Penas Truque, Isabel Mir Viladrich, Silvia Dorrorsoro Quintana, Lander Altube Urrugeogetxea, 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
Sofia Kovaleva (Sain-Petersburg, Russian Federation), Larisa Kiryukhina, Nina Denisova, Kirill Bolotov, Elena Kokorina, 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 Yıldırım, Fusun Alatas, Sinan Erginel, Abdullah Kayıkcı, Tunahan Yüce

Pre-congress content
Session 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)

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

Hiatus hernia and interstitial lung abnormalities
Peter George (London, United Kingdom), Tomoyuki Hida, Rachel Putman, Sujal Desai, Anand Devaraj, Sacheen Kumar, John Mackintosh, Vilmundur Gudmundsson, Hiroto Hatabu, Gunnar Gudmundsson, Gary Hunninghake

The effect of metformin on clinically relevant outcomes in 3,144 IPF patients from the EMPIRE registry
Dragana M. Jovanović (Beograd, Republic of Serbia), Martina Šterclová, Nesrin Mogulkoc, Katarzyna Lewandowska, Veronika Müller, Marta Hájková, Mordechai Kramer, Jasna Tekavec-Trkanjec, Michael Studnicka, Natalia Stoeva, Biserka Jovovska Kaeva, Simona Littnerová, Marina Roksandić Milenković, Martina Vasakova

Clinical value of cluster analysis of unclassifiable idiopathic interstitial pneumonias phenotypes
Yutaro Nakamura (Hamamatsu, Japan), Tae Iwasawa, Shoichiro Matsushita, Yasuhiro Terasaki, Shinobu Kunugi, Hideya Kitamura, Kazutaka Morii, Hideki Yasui, Tomoyuki Fujisawa, Takaumi Suda

Early decrease in erector spinae muscle area and future risk of mortality in idiopathic pulmonary fibrosis
Akiko Nakano (Nagoya-city, Japan), Hiro.tsugu Ohkubo, Hiroyuki Taniguchi, Yasuhiro Kondoh, Toshiaki Matsuda, Mitsuaki Yagi, Taiki Furukawa, Yoshihiro Kanemitsu, Akio Niimi

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, Mirela Mirt, Monica Bengus, Frank Gilberg, Klaus-Uwe Kirchgaessler, Carlo Vancheri

Reliability of home spirometry in idiopathic pulmonary fibrosis
Catharina Moor (Rotterdam, Netherlands), Rémy Mostard, Jan Grutters, Paul Bresser, Joachim Aerts, Niels Chavannes, Marlies Wijsenbeek

Mapping IPF helps identify geographic regions at higher risk for disease development
Jessica Shull (Sitges, Spain), Oriol Jorba, Carla Lara, Miriam Olid, Maria Teresa Pay, Guadalupe Bermudo, Guillermo Suarez Curatìn, Vanesa Vicens, Lurdes Planas, Jaume Bords, Pilar Rivera Ortega, Maria Molina Molina, Crampid Group

Low income and progression free survival in idiopathic pulmonary fibrosis: an association to uncover

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, Katherine Spinks, Andrew Wilson, Lisa Spencer

Outcomes of patients with advanced IPF treated with antifibrotic therapy
Michael Thomas Durham (Eiksmarka, Norway), Lisa Carlson, Charlotte Hyldgaard, Dimitrios Kalafatis, Elisabeth Bendstrup, Magnus Sköld, Tone Sjåheim

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
The value of the surprise question to predict mortality in idiopathic pulmonary fibrosis
Nelleke Tak (Rotterdam, Netherlands), Catharina Moor, Catherine Owusu, C. Van Der Rijt, Marlies Wijsenbeek

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, Valentín Hernandez Barrera, Alicia Cerezo Lajas, Luis Puente Maestu, Rodrigo Jimenez Garcia

Pirfenidone in unclassifiable ILD (uILD): subgroup analysis of patients with/without a surgical lung biopsy (SLB)
Vincent Cottin (Lyon, France), Tamer J. Corte, Michael Kreuter, Maria Molina-Molina, Judit Axmann, Frank Gilberg, Klaus-Uwe Kirchgaessler, Toby M. Maher

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 PilsgaardHenriksen

IMPACT OF IPF PATIENT SUPPORT PROGRAM IN QUALITY OF LIFE

Pre-congress content
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)

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 Juca Michelen, Beatriz Gomez Crespo

Chest Imaging Abnormalities in Patients with Uncontrolled Rheumatoid Arthritis Prior to Biological Therapy Initiation
Amelia Benjamin (London, United Kingdom), Katie Ward

Clinico-radiological profile of connective tissue diseases related interstitial lung diseases
Mehul Agarwal (Ajmer, India), Manohar Lal Gupta, Neha Bharti, Gopal Chawla

Use of mycophenolate mofetil for the treatment of hypersensitivity pneumonitis
Eduardo Antonio Velez Segovia (Barcelona, Spain), Xavier Vidal Guitart, Ana Villar Gomez

The prediction of risk factors of tyrosine kinase inhibitor-induced pneumonitis in non-small cell lung cancer
Hyo Jae Kang (Goyang, Republic of Korea)

Evaluation of pulmonary manifestations of myeloperoxidase-antineutrophil cytoplasmic antibody associated vasculitis
Masaomi Marukawa (Marugame, Japan), Katsuyuki Matsuoka, Hisao Higo, Noriyuki Suzuki, Takuya Nagata

CARACTERISTICAS DE UNA PROSPECTIVA COHORT DE PACIENTES CON IPAF (INTERSTITAL PNEUMONIA WITH AUTOIMMUNE FEATURES) POR NEUMOLOGISTAS Y REUMATOLOGISTAS DE MADRID. IPAF-NEREM STUDY
Mª Asuncion Nieto Barbero (Madrid, Spain), Cristina Vadillo Font, Mª Jesús Rodríguez-Nieto, Olga Sánchez Pernaute, Fredeswinda Isabel Romero Bueno, Rosalía Laporta Hernández, Belén López Muñiz Ballesteros, Laura Cebrián Martínez, Mª Teresa Rio Martínez, Gemma Maria Mora Ortega, Tatiana Cobo Ibáñez, Lydia Abásolo Alcázar

Relationship between horizontal adductor muscles strength and pulmonary functions in idiopathic pulmonary fibrosis
Habibe Durdu (İstanbul, Turkey), S. Ufuk Yurdalan, Ipek Özmen

Telemetric observation of the course and treatment effects of selected interstitial lung diseases associated with connective tissue diseases (CTD-ILD) - protocol presentation
Joanna Miłkowska - Dymanowska (Łódź, Poland), Maria Mozga, Sylwia Malysiak-Szponder, Adam J. Białas, Wojciech J. Piotrowski
**King’s Brief Interstitial Lung Disease (K-BILD) questionnaire: content relevance in progressive fibrosing ILD (PF-ILD)**
Surinder S. Birring (London, United Kingdom), Donald M. Bushnell, Katelyn Cutts, Michael Baldwin, Klaus B. Rohr, Natalia Male

**Utility of Lung Ultrasound in Interstitial Lung Disease - A Paradigm Shift**
Gopal Chawla (New Delhi (Delhi), India), Naveen Dutt, Nishant Chauhan, Ram Niwas, Sandip Agarwal, Priyank Jain, Mehul Agarwal

**Impact of mycophenolate mofetil on lung function in chronic hypersensitivity pneumonitis and connective tissue disease related-ILD**
Eduarda Salomé Soares Seixas (Lourosa, Portugal), Paula Serra, Renata Aguiar, Margarida Ferreira, Pedro Gonçalo Ferreira

**Exploring barriers to Pirfenidone adherence in patients with idiopathic pulmonary fibrosis: a prospective study**
anouk delameillieure (Brussel, Belgium), Fabienne Dobbels, Katleen Leceuvre, Daniele Strens, Patrick Simaels, Karolien Verheyen, Jonas Yserbyt, Wim Wyys

**Use of Rituximab in the treatment of CTD-ILD in RA patients.**
Francesco Bini (Pavia (PV), Italy), Dina Visca, Angelo De Lauretis, Bruno Bodini, Daniele Colombo, Paola Faverio, Adriano Vaghi

**Title: Video Assisted Thoracoscopy Surgery (VATS) in unidentified Interstitial Lung disease: a six year retrospective study in India**
Apar Agarwal (Meerut, India), Ajay Lall

**Risk factors of transbronchial cryobiopsy complications: A Retrospective Study of 500 Patients**
Katsuyuki Higa (kiyose, Japan), Takashi Niwa, Midori Sato, Yozo Sato, Akimasa Sekine, Hideya Kitamura, Tomohisa Baba, Tae Iwasawa, Tamiko Takemura, Takashi Ogura

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

**E-poster session: Comprehensive care and pulmonary rehabilitation for chronic respiratory diseases**

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<th>Disease(s)</th>
<th>Method(s)</th>
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<td>Sleep and breathing disorders</td>
<td>General respiratory patient care</td>
<td>Ioannis Vogiatzis (Newcastle upon tyne (Tyne and Wear), United Kingdom), Afroditi Boutou (Thessaloniki, Greece)</td>
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<td>Airway diseases</td>
<td>Epidemiology</td>
<td>Long-term noninvasive ventilation: do patients aged over 75 years differ from younger adults?</td>
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<td>Pulmonary vascular diseases</td>
<td>Pulmonary rehabilitation</td>
<td>Early pulmonary rehabilitation increases 6MWD and reduces CRP in hospitalized patients with severe AECOPD</td>
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<td>Thoracic oncology</td>
<td>Pulmonary function testing</td>
<td>Changes in SPPB during hospital admission for AECOPD</td>
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<td>Respiratory critical care</td>
<td>Transplantation</td>
<td>The effect of pulmonary rehabilitation during chest radiotherapy in patients with malignancy</td>
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**Sexuality in Chronic Obstructive Pulmonary Disease (SEXY COPD)**
Claudia Steurer-Stey (Zürich, Switzerland), Alexandra Strassmann, Kabu Dalla Lana, Johann Gauer, Anja Frei, Milo Puhan

**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

**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

**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 Faverzani, Chiara Mancini
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, Nienie Nakken, Daisy Janssen

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

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

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

Efficacy of community based pulmonary rehabilitation (PR) in reducing exacerbations rates in patients with Bronchiectasis: A retrospective review
Suraj Rajput (Ebbsfleet (Kent), United Kingdom), Sandip Banerjee

Effect of the trajectory of exertional breathlessness on symptom recall and prediction: a randomized controlled trial
Magnus Ekström (Lyckeby, Sweden), Viktor Elmberg

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 Sugiura, Ayako Shigeta, Atsushi Murata, Seiichiro Sakao, Koichiro Tatsumi

Dance for people with chronic respiratory disease: A qualitative study.
Keir Philip (London, United Kingdom), Lewis S, Liam Williams, Sara Butterly, Michael Polkey, William Man, Daisy Fancourt, Nicholas Hopkinson

Diaphragm excursion was correlated with respiratory muscle strength and FEV1 in home-based respiratory muscle training with COPD patients
Hsun-Yun Chang (Taoyuan, Taiwan), Han-Pin Kuo, Pai-Chien Chou, Mei-Chuan Chen, Shu-Chuan Ho

SKELETAL MUSCLE DYSFUNCTION AND BODY COMPOSITION ALTERATIONS IN NON-CYSTIC FIBROSIS BRONCHIECTASIS PATIENTS: GENDER DIFFERENCES
Xuejie Wang (Barcelona, Spain), Ana Balañá Corberó, Juana Martinez Llorens, Liyun Qin, Mireia Admetlló, Esmeralda Hernández Leal, Xavier Duran, Antonio Sancho Muñoz, Esther Barreiro Portela

COPD - what patients know about their disease and which of them require special attention
Malgorzata Farnik (Katowice, Poland), Marzena Trzaska - Sobczak

Pre-congress content

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 | Pulmonary function testing | Physiology
Chairs : Claudia Ravaglia (Forlì, Italy), Yasuhiro Kondoh (Seto (Aichi), Japan)

Characteristics and clinical management of IPF patients in Spain: prospective, observational, multicentric study (OASIS study).
Ana Dolores Romero Ortiz (Granada, Spain), Maria Jesús Rodríguez-Martínez, Esteban Cano-Jiménez, Alba Ramón, Silvia Armengol, Elena Alhaja, Maite Artés

Cluster analysis and survival in patients with Idiopathic pulmonary fibrosis
Dimitrios Kalafatis (Stockholm, Sweden), Lisa Carlson, Jing Gao, Chuan Xing Li, Ida Pesonen, Carl Magnus Sköld

Acute Exacerbation of IPF - Experience of a Portuguese RICU
Joana Rodrigues Barbosa (Lisboa, Portugal), Sara Salgado, Paula Esteves, Cristina Bábara

Russian IPF Registry: time of inclusion impacts patients' status
Svetlana Yu. Chikina (Moscow, Russian Federation), Sergey Avdeev, Igor Tyurin, Alexander Cherniak, Zamira Merzhoeva
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<td>Baseline characteristics and survival of patients with idiopathic pulmonary fibrosis (IPF): analysis from the Swedish IPF registry</td>
<td>Jing Gao (Stockholm, Sweden), Dimitrios Kalafatis, Lisa Carlson, Chuan-Xing Li, Ida Pesonen, Magnus Sköld</td>
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<td>Prevalence of idiopathic pulmonary fibrosis in Japan and the US: a claims-based retrospective study</td>
<td>Yasuhiro Kondoh (Seto (Aichi), Japan), Takaumi Suda, Yoshie Hongo, Manami Yoshida, Shinzo Hiroi, Kosuke Iwasaki, Tomomi Takeshima, Sakae Homma</td>
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<td>Long-term outcomes of antifibrotic treatments in patients with idiopathic pulmonary fibrosis: Real-world experience</td>
<td>Sibel Nayci (Mersin, Turkey), Demet Polat, Eyrem Sercan Ozgur, Cengiz Özge</td>
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<td>Factors influencing best tolerated dose of pirfenidone (PFD) in patients with IPF</td>
<td>Neha Agrawal Mandovra (Indore (Madhya Pradesh), India), Preyas Vaidya, Ria Shah, Vinod Chavhan, Joerg Leuppi, Anne Leuppi-Taegtemeyer, Prashant Chhajed</td>
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<td>Safety and Tolerability of Combination Therapy with Nintedanib and Pirfenidone for Idiopathic Pulmonary Fibrosis: A Multicenter, Retrospective, Observational Study in Japan</td>
<td>shu hisata (Sendai, Japan), Masashi Bando, Sakae Homma, Kansuke Kataoka, Takashi Ogura, Shinuyu Izumi, Susumu Sakamoto, Yoshinobu Saito, Kizuku Watanabe, Yasuo Shimizu, Motoyasu Kato, Naohiko Inase</td>
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<td>Efficacy of low dose pirfenidone in idiopathic pulmonary fibrosis: Real world experience from a tertiary university hospital</td>
<td>Song Yee Kim (Seoul, Republic of Korea), Juhye Shin, Myung Jin Song, Moo Suk Park, Young Ae Kang</td>
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<td>Assessing the effectiveness of pirfenidone in changing the natural course of idiopathic pulmonary fibrosis: the data from European IPF Registry (eurIPFreg).</td>
<td>Ekaterina Krauss (Giessen, Germany), Silke Tello, Ruth C. Dartsch, Martina Korfei, Poornima Mahavadi, Mark Stoehr, Jochen Wilhelm, Raphael Majeed, Philippe Bonniaud, Carlo Vancheri, Athol U. Wells, Werner Seeger, Bruno Crestani, Andreas Guenther</td>
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<td>Impact of tidal volume, GAP index and anti-fibrotic treatment on disease progression and mortality in IPF patients</td>
<td>Ekaterina Krauss (Giessen, Germany), Brahia Ait Ilalne, Christine Knittel, Jochen Wilhelm, Ruth C. Dartsch, Silke Tello, Poornima Mahavadi, Martina Korfei, Werner Seeger, Bruno Crestani, Andreas Guenther</td>
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<td>Prevalence and Characteristics of Patients Receiving Antifibrotic Therapy for Idiopathic Pulmonary Fibrosis</td>
<td>Yuying Qiu (Nanjing (Jiangsu), China), Ruizhi Zhao, Brandon Elpers, Yuexi Wang, Lin Xie, Jackson Tang, Aryeh Fischer</td>
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<td>Antithrombotics in idiopathic pulmonary fibrosis patients with concomitant antifibrotic therapy: a single centre real world experience</td>
<td>Anna Agnese Stanziola (Napoli (NA), Italy), Danilo Pentangelo, Rossella D'Angelo, Ludovica Capitelli, Roberto Rega, Marialuisa Bocchino, Umberto Malapelle</td>
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<td>Characteristics and management of patients with idiopathic pulmonary fibrosis treated with pirfenidone capsule or tablet formulation</td>
<td>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</td>
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<td>Association between antifibrotic medications and pneumothorax or pneumomediastinum in patients with idiopathic pulmonary fibrosis</td>
<td>Taisuke Akamatsu (Shizuoka, Japan), Hiromasa Nakayasu, Kanami Tamura, Yoshihiro Masuda, Shingo Takahashi, Yuko Tanaka, Hirofumi Watanabe, Yutaro Kishimoto, Kyohei Oishi, Mika Saigusa, Akito Yamamoto, Satoru Morita, Kazuhiro Asada, Yoshihiro Shirai</td>
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<td>Nintedanib in IPF: post hoc analysis of the Italian FIBRONET observational study</td>
<td>Venerino Poletti (Forlì, Italy), Carlo Albera, Sergio Harari, Alberto Pesci, Alessandra Ori, Giovanna Crespi, Benedetta Campolo, Carlo Vancheri</td>
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<td>Results of antifibrotic drugs in the treatment of idiopathic pulmonary fibrosis. A real life study</td>
<td>Jacinto Hernandez Borge (Badajoz, Spain), Ana Castahar Jover, Luis Miguel Sierra Murillo, Pilar Ihigo Naranjo, Santiago Hernández Gómez, Amparo Sanz Cabrera</td>
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<td>GAP scoring system in IPF patients treated with antifibrotics: prognostic performance and 1- to 3- years mortality: a retrospective study</td>
<td>Laurens De Sadeleer (Leuven, Belgium), Tinne Goos, Jonas Yserbyt, Stijn E Verleden, Wim A Wuyts</td>
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<td>Characterize Idiopathic Pulmonary Fibrosis using Respiratory Oscillometry</td>
<td>Joyce Wu (Richmond Hill, Canada), Anastasiia Vasileva, Ehren Chang, Jin Ma, Qian Huang, Antonio Cassano, Matthew Binnie, Shane Shapera, Jolene H. Fisher, Clodagh M. Ryan, Chung-Wai Chow</td>
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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)

- **Validity of Caprini and Padua risk assessment models in identifying venous thromboembolism risk among hospitalized patients**
  Jin Zhang (Yinchuan (Ningxia), China), Yan Sun

- **Chronic thromboembolic pulmonary hypertension in acute pulmonary embolism: A risk factor evaluation study**
  Şilan Işık (Ankara, Turkey), Emine Bahar Kurt

- **Predictors of Residual Pulmonary Vascular Obstruction after Pulmonary Embolism: results from a prospective cohort study**
  Gaël Picart (Brest, France), Francis Couturaud, Philippe Robin, Cécile Tromeur, Raphael Le Mao, Leela Raj, Christophe Leroyer

- **The relationship of thrombus localization with prognosis and chronic thromboembolic pulmonary hypertension in acute pulmonary thromboembolism**
  Sibel Nayci (Mersin, Turkey), Biray Harbiyeli, Buğra Özkan, Pınar Pelin Özcan, Yüksel Balci, Ismail Türkay Özcan, Eylem Sercan Özgür, Cengiz Özge

- **Pulmonary thromboembolism in childhood: Six years of single center experience**
  Gizem Özcan (Ankara, Turkey), Hasan Fatih Çakmaklı, Fazîlcan Zirek, Tanîl Kendirli, Tayfun Uçar, Nazan Çobanoğlu

- **Comparison of side effects between thrombolytic and anticoagulation therapy in patients with Pulmonary Embolism**
  Habibe Oflaz Hezer (Ankara, Turkey), Hattice Kılıç, H.Canan Hasanoglu, Aysegul Karalezli, Elif Babaoglu, Mükremin Er, E. Sengül Parlak, Osama Abuizaina, Derya Oztuna, Emine Arguder

- **Analysis of Causes of Diagnostic Difficulties and Features of Clinical Course of Pulmonary Embolism**
  Nataliia Popenko (Kyiv, Ukraine)

- **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 Benítez-Cano Gámonosó, María 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 McAdam, 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, Zaraough Wahbi

- **Does abdominal-pelvic CT detect occult malignancy in patients with unprovoked pulmonary embolism?**
  Bana Hawramy (Cleckheaton, United Kingdom), Julian Ting, Dipansu Ghosh

- **What is the incidence of pleural effusions in acute pulmonary emboli?**
  Karl Jackson (Newcastle, United Kingdom), Avinash Ajayde

- **Changes in heart rate variability during psychological stress in cardiorespiratory failure patients**
  Guadalupe Lizzbette Luna Rodriguez (Nezahualcóyotl, Mexico), Guadalupe Lizzbette Luna Rodríguez, Viridiana Pelaúz-Hernández, Laura Arely Martínez-Bautista, Karla Leticia Rosales-Castillo, Karen Aidee Santillán-Reyes, Arturo Orea-Tejeda, Rocío Sánchez-Santillán, Juan José Orozco-Gutierrez, Ilse Del Carmen Pérez-García, Nathalie Martinez-Luna, Yael Ramiro Gastelum-Ayala

**Pre-congress content**

**E-poster session: Health effects of inhaled nicotine devices: from smoking to vaping and heated tobacco**

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

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

**Chairs:** Charlotte Pisinger (Frederiksberg, Denmark), Linnea Hedman (Luleå, Sweden)
**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**
Marine Gambaryan (Moscow, Russian Federation), Anna Kalinina, Marina Popovich, Michail Starovoyтов, Oxana Drapkina

**Negative impact of heated tobacco products use on smoking cessation: a prospective study**
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), Saída Mukanhana, 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. Spyratos, Konstantinos Porpodis, Athanasia Patakia, 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 Mustafaoglu (Istanbul, Turkey), Ashlı Görek Dilektaşlı, Rengin Demir, Emrah Zirek, Tansu Birinci, Ebru Kaya Mutlu, Cuneyt Evren, Arzu Razak Ozdincler

**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 Neley Rodriguez, Violeta Avendaño, Alejandra Cañas-Arboleda, Paola Rodríguez, Leonardo Galindo, Andres Gonzalez

**Does DNA methylation levels change in smokers?**
Mehmet Uysal (İstanbul, Turkey), Halit Cinarka, Yelda Ozgun Niksarlioglu, Yasemin Oyaci, Sacide Pehlivan

**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

**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

**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

**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

**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

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**Pre-congress content**

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

**E-poster session: Respiratory homeostasis and structural changes in disease**

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

**Method(s):** Cell and molecular biology General respiratory patient care Physiology Pulmonary function testing Endoscopy and interventional pulmonology Imaging Epidemiology
**Chairs:** Anne M. van der Does (Leiden, Netherlands), Killian Hurley (Dublin 3, Ireland)

**The influence of the conservation of respiratory epithelial samples on ciliary functional analysis**
Anne M. van der Does (Leiden, Netherlands), Lionel Benchimol, Anne-Lise Poirrier, Hedwige Boboli, Marie-Christinne Seghaye, Renaud Louis, Philippe Lefebvre, Bruno Louis, Jean-François Papon, Céline Kempenears

**Eosinophil subtypes’ effect on airway smooth muscle cells differentiation and migration in asthma**
Noemie Bricmont (Florennes, Belgium), Lionel Benchimol, Anne-Lise Poirrier, Hedwige Boboli, Marie-Christinne Seghaye, Virginija Kalinauskaite-Zukauske, Jolita Palacionyte, Kestutis Malakauskas

**Let-7 promotes airway remodeling via regulation of IL-6 in chronic obstruction pulmonary disease**
Tao Bian (Wuxi, China), Tingting Di

**Site-specific remodelling of the airway smooth muscle layer in asthma**
John Elliot (Perth (WA), Australia), Peter Noble, Alvenia Cairncross, Thais Mauad, Michael Abramson, Karen Mckay, Francis Green, Alan James

**Latent TGF-ß binding protein 4 is an important factor that influences anti-inflammatory and cell-protective responses in the pathogenesis of pulmonary emphysema**
Masaki Ishii (Tokyo, Japan), Yasuhiro Yamaguchi, Hironobu Hamaya, Yuko Iwata, Sumito Ogawa, Masahiro Akishita

**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

**Stereological approach to the pathology of lung aging in humans**
Fabricio Santos (Diadema, Brazil), Francisca Lucas Froio, Gabriel Ribeiro Júnior, Mariana Matera Veras, Lisie Justo, Paulo Saldiva, Natalia De Souza Xavier Costa, Thais Mauad

**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, Annarita Depalo, Maria Luisa Colucci, Giovanna Elisiana Carpagnano, Piera Socco, Maria Pia Foschino Barbaro

**Mouse airway bronchodilation via Proteinase Activated Receptor 2**
Kimberly Black (Paisley, United Kingdom), Andrew Mackenzie, Lynette Dunning, Anne Crilly, Joanna Brzeszcynska, Lorcan Megarvey, Keith Thornbury, Carl S. Goodyear, John C. Lockhart, Gary J. Litherland

**Epithelial anion secretion of human bronchial ciliary epithelium.**
Shigekuni Hosogi (Kyoto, Japan), Nobuyo Tamiya, Leonardo Puppulin, Hideo Tanaka, Koichi Takayama, Eishi Ashihara

**LSC - 2019 - Transcriptomic and proteomic analyses reveal age-related extracellular matrix changes in the lung**
Anna Kliminkova (Saint-Petersburg, Russian Federation), Galina Danilova, Nina Aleksandrova

**The effect of eosinophil subtypes on ASM cells proliferation and viability in asthma**
Egle Jurkeviciute (Kaunas, Lithuania), Andrius Januskevicius, Ieva Janulaityte, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaite-Zukauske, Jolita Palacionyte, Kestutis Malakauskas

**The effect of Taxane anticancer drugs on bronchiolar ciliary activity in human airway cultured cells**
Nobuyo Tamiya (Kyoto, Japan), Shigekuni Hosogi, Jun Suzumoto, Masaki Ishida, Chikara Sakaguchi, Michiko Tsuchiya, Yukio Nagasaka, Eishi Ashihara, Koichi Takayama

**Activity of ENaC-activating serine proteases in human alveolar epithelial cells**
Alikeza Tavakolinejad (Auckland, New Zealand), Vinod Suresh

**PIERCEing ciliogenesis: defining a role for PIERCE1 and its paralog C15ORF65 in multiciliogenesis**
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Lynne Bingle, Colin Bingle

**Mitotically inactivated 3T3-J2 feeder cells support the differentiation of 3D bronchospheres**
Rahul Raman, Michelle Brand, Richard Sprott, Frank Langer, Thomas Tschernig, Robert Bals, Christoph Beisswenger

**Pre-congress content**

**Session 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)
Improving Primary Ciliary Dyskinesia diagnosis using Artificial Intelligence
Andreia Lucia do Nascimento Pinto (London, United Kingdom), Laurens Hogeweg, Oliver Hamilton, Ioannis Katramados, Amelia Shoemark, Thomas Burgoyne, Claire Hogg

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

An international perspective on the demographic and clinical features of exercise induced laryngeal obstruction
Emil S. Walsted (Frederiksborg, 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

Prognostic determinants in motoneuron diseases
Alessandro Celi (Pisa (PI), Italy), Massimiliano Serradori, Marco Gherardi, Luciano Gabbrielli, Claudio Bettini, Ferruccio Aquilini, Giovanni D’Ambrosio, Antonio Servino

Investigation of granulomatous lung diseases in cases with granulomatosis ocular pathologies
Zuleyha Bingol (Istanbul, Turkey), Tulin Cagatay, Gulfer Okumuş, Merih Oray, Sehan Dagistanli, Zeki Kilicaslan, Ilknur Tugal – tutkun

Characteristics of antineutrophil cytoplasmic antibodies-associated vasculitis with pleural effusion as the initial manifestation
Shosei Ro (Suginami-ku, Tokyo-to, Japan), Ryosuke Imai, Clara So, Manabu Murakami, Ryosuke Tsugitomi, Kohei Okafuji, Atsushi Kitamura, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

Altered exhaled NO parameters in newly onset of rheumatoid arthritis
Marieann Högman (Uppsala, Sweden), Alexandra Thomadtssson, Anders Lind, Thomas Weitoft

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

Comprehensive study of the mucociliary system in patients with chronic obstructive pulmonary pathology
Vyacheslav Kobylyansky (Moscow, Russian Federation)

Clinical profile of Tropical Pulmonary Eosinophilia (TPE) in Bihar, India
Saket Sharma (Patna (Bihar), India)

Rate of respiratory symptoms in naïve patients with Chronic lymphocytic leukemia
Ganna Usenko (Dnipro, Ukraine), Kateryna Gashynova

Vascular anomalies causing airway compression: six-year single center experience
Fazilecan Zirek (Ankara, Turkey), Gizem Özcan, Mehmet Ramoğlu, Tayfun Uçar, Hasan Ercan Tutar, Fatma Nazan Çobanoğlu

High minute volume pulmonary hypertension reversed by thiamine administration in wet Beriberi
Martin Bosio (Buenos Aires, Argentina), Felipe Julio Chertcoff, Lorena Maldonado, Nicolas Emery, Alejandro Salvador

Spontaneous resolutive pulmonary necrotizing granulomatosis
Bastien Weicker (Belgium), Adeline Rosoux, Isabelle Gielen, Bruno Coulier, Richard Frognier

Impact of the alveolar-arterial oxygen gradient on prognosis after liver transplantation in adults: a single-center experience.
Alberto Garcia Ortega (Valencia, Spain), Ana Torrents Villar, Marcos Prado Barragán, Grace Oscullo Yepez, Antonio Caña Martínez, Lorena Puchades Renau, Julia Herreras López, Rafael López Andújar, Raquel López Reyes

Respiratory complication rate after scoliosis surgery in children with cerebral palsy.
Marijke Proesmans (Leuven, Belgium), Elke Vandendriessche, Pierre Moens, Els Ortibus

Title: Impulse Oscillometry (IOS) in patients with Amyotrophic Lateral Sclerosis
Paola Pierucci (Bari, Italy), Enrico Baonamico, Andrea Portacci, Francesca Fortunato, Giovanna Elisiana, Caragno, Onofrio Resta

Pre-congress content Session 00:00 - 23:59
E-poster session: Molecular insights into paediatric disease
Disease(s): Airway diseases
Method(s): Cell and molecular biology Physiology General respiratory patient care
Chairs: Chair to be confirmed
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

Determinants and consequences of exertional ventilatory inefficiency in patients with ILD
Franciele Plachi (Porto Alegre, Brazil), Fernanda Balzan, Ricardo Gass, Igor Cézar, J Alberto Neder, Danilo Berton

Exertional ventilatory and gas exchange inefficiency: contrasting interstitial versus pulmonary vascular disease
FERNANDA BALZAN (PORTO ALEGRE, Brazil), Franciele Plachi, Igor Cézar, Lisia Cé, Nathália Mendes, Kimberli Käfer, J Alberto Neder, Danilo Berton

The effect of high flow oxygen during constant-load cycling test in severe ILD patients.
Yara Al Chikhanie (Dieulefit, France), Frédéric Hérengt, Samuel Vergès, Daniel Veale

Effect of High-Flow Oxygen on Exercise Performance in COPD. A Randomized Crossover Trial.
Konstantinos Bitsos (Zurich, Switzerland), Michael Furian, Laura Mayer, Simon Rafael Schneider, Simone Buenzli, Maamed Mademilov, Ulan Sheraliev, Anurah K. Abdraevo, Shaira Aydaralieva, Aybermet Myratbekova, Talantbek M. Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch

Impact of automatic oxygen titration alone or with high flows on exercise tolerance in patients with lung disease and exercise desaturation
Félix-Antoine Vézina (Sherbrooke (QC), Canada), Pierre-Alexandre Bouchard, Damien Viglino, Emilie Breton-Gagnon, Geneviève Dion, Lara Bilodeau, Steve Provancher, Cynthia Brouillard, François Lellouche, François Malais

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 Chatzikosti, Aikaterini Markopoulou, Ioannis Stanopoulos, Georgia Pitsiou

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

Hypoxic training to improve exercise capacity in obesity: a randomized controlled trial
Samuel Vergès (Grenoble, France), Sammarar Chacaroun, Anna Borowik, Ignacio Vega-Escamilla Y Gonzalez, Stéphane Doutreleau, Bernard Wuyam, Elise Belaidi, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore

Physiological responses to passive hypoxic conditioning in obesity: a randomized controlled trial
Samuel Vergès (Grenoble, France), Sammarar Chacaroun, Anna Borowik, Stéphane Doutreleau, Elise Belaidi, Bernard Wuyam, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore

Effect of nocturnal oxygen therapy on next-day exercise performance using synchrotron X-ray microtomography in intact rat lung
Sophia Gutweniger (Zürich, Switzerland), Tsgyal D. Latshang, Sayaka S. Aeschbacher, Fabienne Huber, Deborah Flueck, Mona Lichtblau, Stefanie Ulrich, Elisabeth D. Hasler, Philipp M. Scheiwiller, Silvia Ulrich, Konrad E. Bloch, Michael Furian

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

Within-breath dynamics of atelectrauma during mechanical ventilation studied by in vivo 4D microscopy in injured rabbit lung
Luca Fardin (Grenoble, France), Ludovic Broche, Goran Lovric, Alberto Mittone, Anders Larsson, Alberto Bravin, Sam Bayat
**Feasibility and reproducibility of oscillometry for measuring respiratory function in young children: the SEPAGES cohort**
Sam Bayat (Grenoble, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoan Gioria, Rémy Slama, Isabelle Pin, Valérie Stroux

**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 Baisì, Stefano Centanni

**Reduced neural gating of respiratory sensations in COPD patients versus healthy controls**
Ysys Denutte (Leuven, Belgium), Thomas Reijnders, Paul W. Davenport, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

### Pre-congress content

**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), Chair to be confirmed

- **Tacrolimus versus cyclosporine for lung transplant recipients in Portugal**
  David Tavares Teixeira Da Silva (Oliveira de Frades, Portugal), Carolina Dantas, Madalena Emilianio, Luisa Semedo, João Cardoso

- **Prevalence and outcomes of diabetes in lung transplant recipients: the portuguese experience**
  Maria Inês de Sousa Moreira (Lisboa, Portugal), Sara Silva, Ana Raquel Magalhães, Sara Alfarrroba, Luísa Semedo, João Cardoso

- **Cytomegalovirus-specific cell-mediated immunity after prophylaxis predicts late-onset infection in lung transplantation**
  Eva Revilla Lopez (Barcelona, Spain), Marta Jarque, Berta Sáez Giménez, Ibai Los Arcos, Susana Gómez Ollés, Oriol 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 Daffré, Valeria Musso, Andrea Aliverti, Letizia Morlacchi, Rosaria Carrinola, Valeria Rossetti, Mario Nosostti

- **Airway complications after lung transplantation: risk factors and survival**
  Claudia Maria Sanfilippo (, Italy), Francesco Tarantini, Gianluca Imeri, Caterina Conti, Stefania Camagni, Francesco Consomni, Giuseppe Ciarravino, Sofia Comandini, Piercarlo Parigi, Federico Raimondi, 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

- **6M WT as useful predictor for long term survival after lung transplantation in patients with ILD**
  Elias Kampschulte (Viena, Austria), Alberto Benazzo, Panja Boehm, Christian Lang, Konrad Hoetzenecker, Peter Jaksch, Gabriella Murakoezy, Walter Klepetko, Christopher Lambers

- **Impact of intensive care unit (ICU) admissions in Lung Transplant patients**
  Myriam Aguilar Perez (Las Rozas (Madrid), Spain), Marta Erro Iribarren, Alfonso Ortega López, Sandra Tejado Bravo, Rosalia Laporta Hernandez, Maria Teresa Lazarro Carrasco De La Fuente, Piedad Ussetti Gil

- **Outcome of lung retransplantation: from graft survival to patients’ perspective**
  Sofia Comandini (Mercato Saraceno (FC), Italy), Fabiano Di Marco, Gianluca Imeri, Luca Novelli, Stefania Camagni, Michele Colledan, Claudia Maria Sanfilippo, Piercarlo Parigi, Alessandro Lucianetti, Cristina Pugliese
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 Trachalaki, Katerina Antoniou, Demosthenes Bouros

**Effect of Antifibrotic Therapies in Patients with Interstitial Pneumonia with Autoimmune Features**
Alexandra Nagy (Mosonmagyaróvár, Hungary), Enikő Bárczi, Anígél Farkas, Anikó Bohács, Krisztina Vincze, Noémi Eszer, 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

**Consistent effect of nintedanib on reducing FVC decline across interstitial lung diseases (ILDs)**
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 Marengo, Nicolas Tsapis, Sara Bozzini, Maura D’Amato, Monica Morosini, Simone Mbandjeu, Paolo Maria Sopranca, Manuela Monti, Giuditta Comolli, Alessandra Balduini, Silvia Arpicco, Elias Fattal, 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 Martinez Vázquez, Martha Elena Quintero Martinez, Arturo Orea Jejeda, 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, Robinson Robles Hernandez

**Many-faced histological patterns of hypersensitivity pneumonia: the insights to diagnostics**
Maria Samsonova (Moscow, Russian Federation), Natalia Trushenko, Andrey Cherniaev, Kirill Mikhailicheko, Janna Omarova, Sergey Avdeev

**Concordance of pre transplant radiological diagnosis with posttransplant explant histology of interstitial lung disease (ILD): A single centre study from India.**
Sandeepa H. S. (Bangalore (Karnataka), India), Vijil Rahulan, Apar Jindal, Vishwanath Bellad, Bhaskar B V, Shivaparkash 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, Tsumeuki Oda, Hideya Kitamura, Yasushi Okudela, Tae Iwasawa, Tamiko Takemura, Takashi Ogura

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

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

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

**Experimental modeling of interstitial involvement due to systemic sclerosis.**
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Liubomir Zaits, Roman Yatsyshyn
Seventeen cases of “IgG4-positive interstitial pneumonia” characterized by elevated serum IgG4 levels and IgG4-positive plasma cell infiltrations in the lungs
Masanishi Komatsu (Matsumoto, Japan), Hiroshi Yamamoto, Shoko Matsui, Tomohisa Baba, Atsushi Miyamoto, Tomohiro Handa, Keisuke Tomii, Yuko Waseda, Masashi Bando, Haruyuki Ishii, Yasunari Miyazaki, Tae Iwasawa, Takeshi Johkoh, Akikihoko Yoshizawa, Yasuhiro Terasaki, Akira Hebisawa, Tamiko Takemura, Yoshinori Kawabata, Masayuki Hanaoka, Takeshi Ogura

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

The predictors of diffuse alveolar damage in autopsy cases with acute respiratory distress syndrome
Ryo Suken Imai (Tokyo, Japan), Ro Shosei, Manabu Murakami, Kohei Okafugi, Atsushi Kitamura, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura

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

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

Pre-congress content

E-poster session: Clinical aspects of idiopathic pulmonary fibrosis
Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care  Pulmonary function testing  Epidemiology  Public health  Imaging  Surgery
Chairs: Marcel Veltkamp (De Meern, Netherlands), Julie Morisset (Montréal (QC), Canada)

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

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

2-Year survival of patients with IPF with or without GERD: a study using VA national database
Fei Tang (Hefei, China), Carol Ramos, Mehdi Mirsaeidi, Robert M. Jackson

Unraveling unclassifiable interstitial lung disease - a multicenter approach
Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Charlotte Hyldgaard, Sissel Kronborg-White, Claudia Ganter, Michael Kreuter, Elisabeth Bendstrup

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

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

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

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

Idiopathic Pulmonary Fibrosis behavior in the aged population- is it different?
Omar Hakrush (Nazareth-Illit, Israel), Sonia Schneer, Yochai Adir
Gender differences in idiopathic pulmonary fibrosis: are men and women equal or not?

Preserved forced vital capacity is not always representing early IPF

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

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

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

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

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

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

Burden of idiopathic pulmonary fibrosis (IPF) on quality of life (QoL), work productivity, and healthcare use
Yoshikazu Inoue (Osaka, Japan), Vincent Cottin, Mark Small, James Siddall, Jonathan Langley, Francesco Bonella, Lisa Lancaster

Pre-congress content

E-poster session: News on diagnosis and therapy of idiopathic pulmonary fibrosis

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

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

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

- **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 Brereton, Anna Freeman, Sophie Fletcher, Michael Grocott, Mark Jones, Sandy Jack

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

- **Prognosis and care needs of COPD and ILD patients on long-term oxygen therapy**
  Yet Hong Khor (Melbourne (VIC), Australia), Amelia Harrison, Julien Robinson, Laura Tu, Christine Mcdonald
Association between influenza vaccination and the occurrence of acute exacerbation in idiopathic pulmonary fibrosis

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 Kirchgaessler, Monica Bengus, Frank Gilberg, Athol U. Wells

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

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

Plasma 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, Sharleen Lin, Karl Kossen, Toby Maher

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

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

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

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

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

Initial assessment results of deep learning based disease type classification for interstitial pneumonia using multimodal information
Tomohisa Baba (Yokohama, Japan), Yoshiro Kitamura, Jun Masumoto, Tae Iwasawa, Hideya Kitamura, Akira Oosawa, Takashi Ogura

Single-arm observational study of a mobile app + home spirometry in idiopathic pulmonary fibrosis
Lynn Fox (Dublin 7, Ireland), Lavinia Mcleod, Anne-Marie Russell, Colin Edwards, Katherine O'Reilly

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

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, Daina Stolz, Jens Bremerich, Michael Tamm

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

Pre-congress content

Session 00:00 – 23:59

E-poster session: Predictive markers of progression in connective tissue disease-associated interstitial lung disease and hypersensitivity pneumonitis
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<th>Disease(s)</th>
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<td>Chairs</td>
<td>John Mackintosh (Brisbane, QLD, Australia), Chair to be confirmed</td>
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**Progressive Phenotype in Chronic Hypersensitivity Pneumonitis**  
Filipa Lemos e Aguiar (Paredes, Portugal), Hélder Novais Bastos, Natália Melo, Patricia Mota, António Morais

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

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

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

**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

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

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

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

**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 Mahadvadi, Raphael Majeed, Werner Seeger, Bruno Crestani, Andreas Guenthner

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

**The Gender-Age-Physiology (GAP) Index enhanced with KL-6 serum level for predicting disease progression in interstitial lung diseases (ILD).**  
Francesco Bonella (Düsseldorf, Germany), Hagedüs Balasz, Eva Gottstein, Dirk Theegarten, Ulrich Costabel, Christian Taube

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

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

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

**Prevalence and mortality of systemic sclerosis-associated interstitial lung disease (SSc-ILD) using the French national health insurance system (SNDS) database in France**  
Mohuamad Nasser (Bron, France), Sophie Larrieu, Loic Boussel, Salim Si-Mohamed, Fabienne Bazin, Sébastien Marque, Jacques Massol, Didier Revel, Francoise Thivolet-Bejui, Lara Chalabreysse, Delphine Maucort-Boulch, Eric Hachulla, Stéphane Jouneau, Vincent Cottin
Antisynthetase syndrome related interstitial lung disease may have a better treatment response than other forms of Idiopathic Inflammatory Myopathies: a multi-national study
Juan Ignacio Enghelmayer (Ciudad Autónoma Buenos Aires, Argentina), Florencia Vivero, Sebastian Leiva Aguero, Silvia Quadrelli, Diana Lancellotti, Federico Campins, Javier Sebastiani, Pablo Malfante, Esteban Gandara, Victoria Basso, Magdalena Romiti, Adrian Gaser, Monica Sacnun, Federico Zenon, Ramiro Gomez, Patricia Aruj, Franco Pacello, Norma Naval, Viviana Moyano, Joaquín Maritano, Maria Laura Alberti, Francisco Paulin, Marcela Usandivaras, Santiago Auteri, Carolina Isnardi, Gabriela Tabaj, Brenda Varela, Fabian Caro, Soledad Altuve, Mariana Lagrutta, Javier Abdala, Capone Lilian, Luciana Molinari, Beatriz Gil, Maria Otaola

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

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

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

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

Disease(s) : Interstitial lung diseases Airway diseases Respiratory critical care
Method(s) : General respiratory patient care Pulmonary function testing Imaging Respiratory intensive care Cell and molecular biology Physiology Pulmonary rehabilitation
Chairs: Susana Del Carmen Vanoni (Córdoba, Argentina), Chair to be confirmed

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

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

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

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

Handgrip strenght and dynapenia in patients with idiopathic pulmonary fibrosis (IPF)
Marilyliuse Bocchino (Napoli (NA), Italy), Tudovica capitelli, Anna Agnese Stianziola, Ada Di Gregorio, Lorena Gallotti, Francesco De Biasio, Paola Alicante, Alessandro Sanduzzi Zamparelli, Luca Scalfi

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 Martínez 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

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

Serum CC16 is a potential predictor for IPF diagnosis and prognosis
Yaqiong Tian (Nanjing, China), Xianhua Gui, Hui Li, Jingjing Ding, Yin Liu, Yongsheng Wang, Jinghong Dai, Hourong Cai

Potential new biomarkers for idiopathic pulmonary fibrosis
Marina Roksandić Milenković (Beograd, Republic of Serbia), Jelena Kotur Stevuljević, Vesna Ćeriman, Vladislav Milenković, Dragana Jovanović
IL-18 binding protein as a noble biomarker for idiopathic pulmonary fibrosis
Yu Nakanishi (Hiroshima, Japan), Yasushi Horimasu, Kakuhiro Yamaguchi, Shinjiro Sakamoto, Takeshi Masuda, Taku Nakashima, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

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

KL-6 as a potential therapeutic biomarker in fibrosing interstitial lung diseases
Vivien Somogyi (Heidelberg, Germany), Katharina Mayer, Katharina Kriegsmann, Mark Kriegsmann, Peter Findeisen, Michael Kreuter

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

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

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

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

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

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

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

Angiogenesis in idiopathic pulmonary fibrosis
Cristina Sabater Abad (Valencia, Spain), Gustavo Juan Samper, Susana Torres Martinez, Estrella Fernández-Fabrellas, Vanessa Jaimes Díaz, Esther Verdejo Mengual, Silvia Calaguí Fariñas

Pre-congress session 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
Christiaan Yu (Clayton, Australia), Ar Kar Aung, Chuan Foo

Respiratory Viral Trends in Paediatrics
Chuan Tai Foo (Victoria, Australia), Christiaan Yu

Respiratory viruses in bronchoscopic samples from hematooncology patients
Abdel fattah Touman (Makkah, Saudi Arabia), Ahmad Sayeed, Eid Al Qurashi, Nabil Ghalib, Ahmad Al Dobyany, Omar Al Nashiwaaty

Predictors of influenza PCR positivity in acute exacerbations of chronic obstructive pulmonary disease
Huiying Xu (Singapore, Singapore), Min Sen Yew, Joo Hor Tan, John Abisheganaden
Influenza point-of-care testing: what is the point?
Matthew Maycock (Glasgow (Glasgow), United Kingdom), Emilie Goldstein, William Harvey, Emilie Bellhouse, Su Su Htwe, Rory Gunson, Brian Choo-Kang

Sporadic coronavirus and human metapneumovirus lower respiratory tract infection in adults: comparison of chest CT findings and correlation with clinical outcomes
Lawrence A. Marinari (Bryn Mawr, United States of America), Madeline A. Danny, Wallace T, Miller, Jr.

Infective triggers for asthma exacerbations in Malta
Stephanie Pullicino (Msida, Malta), Jonathan Debattista, Caroline Goudier, Stephen Montefort

The study of the viral etiology in the infectious exacerbations of chronic bronchitis in Ukraine
Galyna Gumieniuk (Kyiv, Ukraine), Mykola Gumieniuk, Oleksii Denysov, Olga Denysova, Svitlana Opimakh

CURRENT MANAGEMENT OF ACUTE BRONCHIOLITIS IN SWITZERLAND
Katharina Hartog (St. Gallen, Switzerland), Cristina Ardura-Garcia, Juerg Hammer, Claudia Kuehni, Juerg Barben

Severe RSV bronchiolitis in children
Rosalie S.N. Linssen (Amsterdam, Netherlands), Reinout A. Bem, Berker Kapitein, Katrien Oude Rengerink, Marieke H. Otten, Bibiche Den Hollander, Louis Bont, Job B.M. Van Woensel

Features of acute respiratory viral infections in pregnant women
Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Irina V. Zhukovets, Tatjana V. Talchenkova, Kristina V. Berezka, Anton S. Abuldinov

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Sergey Lukyanov (Chita (Zabaykalsky Krai), Russian Federation), Andrey Malyarchikov, Vladimir Gorbunov, Tamara Gaidukova, Konstantine Shapovalov

Combination of nitazoxanide with oseltamivir compared with oseltamivir in hospitalized patients with influenza
Parvaiz A. Koul (Srinagar (Jammu and Kashmir), India), Hayer Mir, Tajamul Shah

Is the average exhaled nitric oxide concentration (FeNO) effective in detecting respiratory rhinovirus (RV) infections?
Anirban Sinha (Amsterdam, Netherlands), Rene Lutter, Peter Sterk, Barbara Dierdorf, Tamara Dekker, Urs Frey, Edgar Delgado Eckert

The efficacy of the decamethoxin against simple and complex viruses
Galyna Gumieniuk (Kyiv, Ukraine), Galyna Gumieniuk, Iryna Dziublik, Svitlana Fadeeva, Svitlana Opimakh, Oleksii Denysov

The effectiveness of Influenza vaccination in general Greek population
Eleni Bellou (Glyfada, Greece), Georgia Hardavella, Elissavet Mpampaliari, Eli Keramida, Irma Bracka, Loukia Pappa, Theodor Daskalos, Christos Kritsis, Ioannis Karampinis, Gerasimos Metaxas, Despoina Zorpidou, Eleni Moraitou, Magdalini Makarona, Simona Karabela, Panagiotis Demertzis

A multi-centric retrospective study of respiratory tract metapneumovirus infection in immunocompromised patients.
Antoine Al Hamoud (Boulogne Billancourt, France), Nicolas Etienne, Nathalie Pansu, Emilie Catherinot, Antoine Pouy, Louis Jean Coudrec, Olivier Lortholary

Knowledge, attitudes and practices regarding influenza and TB among health workers during seasonal influenza outbreak
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Association of radiologic findings with mortality of patients infected with 2019 novel coronavirus in Wuhan, China
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Challenges in conducting community surveys on chronic respiratory diseases in Low and Middle-Income Countries: the 4C CORD pilot
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Additive information from mMRC and CCQ in relation to COPD exacerbations
Andrei Malinovschi (Uppsala, Sweden), Karin Lisspers, Christer Janson, Hans Hedenström, Kristina Bröms, Björn Ställberg, Marianne 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 (İstanbul, Turkey), Ayşe Turan

The effect of myofascial release technique on respiratory parameters in hamstring shortness
Betul Cinar (Bezmialem Vakif Üniversitesi, Turkey), Semiramis Ozyilmaz

Abnormal pain processing in young adults with controlled asthma: an observational study
Janet Rodriguez Torres (Granada, Spain), María Granados Santiago, Alejandro Heredia 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 Orts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Janus Laust Thomsen, Niels Henrik Bruun, Anders Lokke, Annelli Sandbæk

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 Gourgoulisianis

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. Brakema, Hilary Pinnock, Ez-Ming Khoo, Aziz Sheikh, Su-May Liew, Chiu-Wan Ng, Rita Isaac, Karutanth Chinna, Li-Ping Wong, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong-Kee Pang, Sanjay Juvekar

Adherence to pharmacotherapy of Colombian patients with COPD according to GOLD 2019
Vicente Andrés Benavides Córdoba (Cali, Colombia), David Escobar-Vidal, Jenifer Rodriguez-Castro, Diana Guerrero Jaramillo, Jhonatan Betancourt-Peña

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

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

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
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<td>Precision of diagnosing COPD everyday practice</td>
<td>Rasa Gauronkskaite (Vilnius, Lithuania), Greta Ragaišienè, Rūta Kibarskytè, Monika Giedraitytè, Agnè Dapšauskaitè, Vytautas Kasiulevičius, Edvardas Danila</td>
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<td>E-poster session: Pharmacological management of COPD</td>
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<td>Disease(s) : Airway diseases</td>
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<td>Method(s) : Epidemiology General respiratory patient care Surgery Public health Pulmonary rehabilitation Pulmonary function testing</td>
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<td>Chairs : Arscang Valipour (Wien, Austria), Chair to be confirmed</td>
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<td>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</td>
<td>Carl-Peter Criee (Bovenden, Germany), Sanaz Bahari Javan, George Georges, Kai Melchior, Raimund Hövelmann, Christian Geßner</td>
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<td>Effect of Peri-operative Bronchodilator Therapy on Postoperative Pulmonary Function among Lung Cancer Patients with COPD</td>
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<td>Alpha-1 antitrypsin deficiency in COPD patients: Time to count it in!</td>
<td>Dilek Karadoğan (Rize, Turkey), Songül Özyurt</td>
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<td>Characteristics of new users of single and multiple-inhaler triple therapy for COPD in primary care in England</td>
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<td>Lancelot Pinto (Montréal (QC), Canada), Arjun Khanna, Rashmi Hegde, Meena Lopez, KArtik Deshmukh, Almesh Kadakol, Jaideep Gogtay</td>
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<td>Effect of COPD medications on exacerbation rates in a real-life COPD patient cohort - data from the Czech Multicenter Research Database of COPD.</td>
<td>Kristian Brat (Brno, Czech Republic), Vladimir Koblizek, Michal Svoboda, Marek Plutinsky, Jaromir Zatoulkal, Eva Volakova, Patrice Popelkova, Barbora Novotna, Tomas Dvorak, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vanik, Lucie Heribanova</td>
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<td>Withdrawal of ICS in patients with COPD</td>
<td>Anne Orholm Nielsen (Roskilde, Denmark), Ole Hilberg, Jens Ulrik Stehr Jensen, Anders Løkke</td>
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<td>Patient characteristics that guide medication advice for primary care COPD patients in an electronic service: preliminary results</td>
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<td>Medical quality control intervention for COPD patients in China: a cluster randomized, controlled trial</td>
<td>Fengyan Wang (Guangzhou, China), Zhenyu Liang, Yumin Zhou, Heng Zhong, Hao Hu, Yuqiong Yang, Weijuan Shi, Yuqi Li, Nansha Zhong, Rongchang Chen</td>
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<td>Dual bronchodilation in real-life COPD management: analysis of patients' characteristics enrolled in COPD Registry in Russia</td>
<td>Andrey Belevskiy (Moscow, Russian Federation), Natalya Kravchenko, Larisa Samosudova, Olga Ostankova</td>
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<td>A specialty wise practice pattern in COPD: A survey of doctors in 3 Asian countries</td>
<td>Abdul Razak Abdul Muttaﬁ (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Ramesh Chokhani, Kirthi Gunasekera, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay</td>
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<td>Influence of vaccine prevention of pneumococcus conjugated vaccine on mortality in patients with COPD</td>
<td>Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova</td>
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<td>Economic impact of delayed multiple-inhaler triple therapy initiation in COPD patients</td>
<td>Afisi Ismaila (Cary, United States of America), Robert Wood, Glenn Anley, Yein Nam, Daniel Bluff, Leah Sansbury</td>
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<td>Is Group C really needed as a group of COPD respect to the disease's outcomes and treatment?</td>
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<td>The effect of methylxanthines as adjunct to corticosteroids among chronic obstructive pulmonary disease patients in acute exacerbation: a systematic review and meta-analysis</td>
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### Pre-congress content

**Session 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:** Alejandra Lopez Giraldo (Castelldefels, Spain), Chair to be confirmed

- **Research priorities in alpha-1 antitrypsin deficiency (AATD) for healthcare professionals**
  - Maria Campos Miranda Duarte Sucena (Porto, Portugal), Miriam Barrecheguren Fernandez, Karen O’hara, Marion Wilkens, Jeanette Boyd, Ewa Kolda, Alice Turner, Gerry Mcelvaney, Ilaria Ferrarotti, Jan Stolk, Joanna Chorostowska-Wynimko, Robert Stockley, Timm Greulich, Marc Miravitlles

- **Prevalence of alpha-1 antitrypsin deficiency (AATD) in Greater Glasgow and Clyde (GG&C) and current practices**
  - Fiona Catterall (Glasgow, United Kingdom), David Anderson

- **ARE THERE DIFFERENCES IN EXERCISE CAPACITY BY GENDER IN COPD PATIENTES?**
  - Virginia Almadana Pacheco (Sevilla, Spain), Cristina Benito Bernáldez, Lucia Marin Barrera, Rut Ayerbe Garcia

- **Phenotypic characteristics of asthmatic patients with distal airways obstruction**
  - Nouha Guediri (Tunis, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Rihab Jebali, Hafaoua Daghfous, Tiritar Fatma

- **Characterization of a patient population phenotyped for alpha-1-antitrypsin**
  - Mariana Conde (Guimarães, Portugal), Bebiana Conde, Catarina Parra, Artur Vale, Ana Fernandes

- **Correlation between cardiorespiratory coupling and six-minute walking tests in patients with chronic obstructive pulmonary disease**
  - Yu-Chen Huang (Taipei City, Taiwan), Tin-Yu Lin, Hau-Tieng Wu, Po-Jui Chang, Chun-Yu Lo, Shu-Min Lin, Horng-Chyun Lin, Yu-Lun Lo

- **Physical activity and cardiac autonomic function in patients with COPD, a cross-sectional analysis**
  - Laura Delgado Ortiz (Barcelona, Spain), Ane Arbilla-Etxarri, Diego Rodriguez, Elena Gimeno-Santos, Anael Barberan-Garcia, Robert Rodríguez-Roisin, Eva Balcells, Jordi Vilaró, Judith Garcia-Aymeric

- **Does airflow limitation severity in stable condition severity of COPD influences in patient cardiac autonomic modulation in COPD patients during hospitalization for exacerbation?**
  - Nathany Souza Schafauser (São Carlos, Brazil), Débora Mayumi De Oliveira Kawakami, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nicole Marques Sgarbosa, Valéria Amorim Pires Di-Lorenzo, Audrey Borghi-Silva, Renata Gonçalves Mendes

- **Evaluation of Serum IL-17a, IL-22 And IL-10 Expression in Stable COPD Patients**
  - Sevíc Sarınc Ulaşlı (Ankara, Turkey), Ersin Günyüz, Sibel Günyüz, Sefa Celik, Mazaffer Sariydın, Secil Demir, Mehmet Unlu

- **Body mass index in COPD: what relationship?**
  - Salma Mokaddem Mohsen (Tunis, Tunisia), Sahar Chakroun, Asma Chaker, Khadija Ayed, Saloua Jameaeddine

- **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 Migaou, Saousen Cheikh Mhamed, Nesrine Fahem, Naceur Rouatbi, Samah Joobeur

COPD Assessment Test (CAT) scores following a digital health intervention
Leanne Kaye (San Francisco, United States of America), Rahul Gondalia, David Van Sickle, David Stempel, Meredith Barrett

The relationship between vitamin D deficiency and the main characteristics of COPD patients
Angelina 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, Mohammed Alaa Abdalamin 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 Samožija

Clinical features and factors associated current smoking in stage I COPD
Hsien-chun Lin (Taipei, Taiwan)

Key findings and quality improvement recommendatons from the national asthma and COPD audit programme (NACAP) primary care audit April 2017- September 2018
Eloya Imoedemhe (London, United Kingdom), Katherine Hickman

Pre-congress content

Session 00:00 - 23:59

E-poster session: Cardiovascular and pulmonary complications of respiratory infections

Disease(s): Respiratory critical care
Airway diseases

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

Chairs: Grant Waterer (Perth (WA), Australia), Chair to be confirmed

Results of vaccination against pneumococcal infection in patients with chronic heart failure
Angelina Kraposhina (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva, Elena Sobko

Incidence of Cardiac Complications after Hospitalisation for Community Acquired Pneumonia: A Large Population-based Cohort Study
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Tricia Mckeever, Wei Shen Lim

Community acquired legionella pneumonia: cardiovascular events and survival
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Ainhoa Gomez Bonilla, Marta Garcia Moyano, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz Gomez Crespo, Borja Ortiz De Urbina Antia, Amaia Urrutia Gajate, Rafael Zalacain Jorge

Endothelial dysfunction and its corrections in patients with severe community-acquired pneumonia (CAP)
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Tetiana Kirieieva, Tetyana Pervtseva

Community acquired pneumonia: an increased risk for subsequent cardiovascular events?
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloisa Silva, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro

Acute Pneumonia and PSI: is it possible to prevent a cardiovascular event?
Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain), Javier Poyo Molina, Irene Juanes Dominguez, Maria Begoña Lahidalga Mugica, Maria Concepcion Begoña Mora, Angel Maria Alonso Gomez, Lucas Tojal Sierra, José Luis Lobo Beristain
Differences in prognosis and outcome in patients with pneumococcal pneumonia and new onset atrial arrhythmia: impact of the time and duration of the arrhythmia
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Lorea Martinez-Indart, Ainhoa Gomez Bonilla, Amaia Artaraz Echeñoz, Joseba Andia Iturrate, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

Meta-analysis of Acute Coronary Syndrome in Patients with Community-Acquired Pneumonia
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Shauntelle Quamminie, Hannah Lawrence, Deborah Ashton, Wei Shen Lim, Tricia Mckeever

Relation between respiratory diseases and the development of cardiovascular events in patients with respiratory viral infection
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Esteban-Lucía, Ainhoa Izquierdo Pérez, Luis Nieto Roca, Ana María Venegas Rodríguez, Camila Sofía García Talavera, Ana Maria Pello Lázaró, Álvaro Aceña Navarro, Felipe Villar Álvarez

Mean platelet volume changes in patients with nosocomial pneumonia.
Vladimir Volchkov (St. Petersburg, Russian Federation), Anastasya Vasilytsina, Vyacheslav Afonchikov, Elizaveta Volchkova, Dmitry Larin

Active monitoring of adverse drug reactions to the use of beta-lactam antibiotics in the treatment of community-acquired pneumonia
Angelina Kraposhina (Krasnoyarsk (Krasnoyarsk), Russian Federation), Ekaterina Sergeevna Torgunakova, Elena Nikolaevna Bochanova, Irina Vladimirovna Demko, Evgeniya Mikhailovna Kurts

Infectious COPD exacerbations and value of chest radiography
Yael González (Buenos Aires, Argentina), Fernando Di Tullio, Glenda Ernst, Martin Bosio, Eduardo Borsini, Alejandro Salvado

Comparative prospective cohort study of the efficacy and safety according to dose of Ceftriaxone in community-acquired pneumonia
Yosuke Nakanishi (Kurashiki, Japan), Akihiro Ito, Hiromasa Tachibana, Tadashi Ishida, Miho Mitsui

Clinical features and antimicrobial resistance pattern of patients with CAP caused by K. pneumoniae in Jakarta, Indonesia
Gina Amanda (Jakarta Timur, Indonesia), Dianiati Kusumo Sutoyo, Erlina Burhan, Budi Haryanto, Wisnu Tafroji, Dodi Safari

Use of corticosteroids in patients with severe CAP admitted to ICU, experience in a real-life setting.
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Pier Luigi Di Giannatale, Enric Barbeta, Stefano Nogas, Patricia Oscanoa, Albert Gabarrus, Miqel Ferrer, Antoni Torres

New prediction score without subjective parameters for community-acquired Legionella pneumonia
Shinya Yokoe (Kurashiki- city, Japan), Akihiro Ito, Hiromasa Tachibana, Miho Mitsui, Yosuke Nakanishi, Tadashi Ishida

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

Pre-congress content

Session 00:00 - 23:59

E-poster session: COPD: inhaled corticosteroids, bronchodilators and eosinophils
Disease(s): Airway diseases  Respiratory critical care
Method(s): General respiratory patient care Pulmonary function testing Epidemiology Public health Cell and molecular biology
Chairs: Hye Yun Park (Seoul, Republic of Korea), Dimitrios Toumpanakis (Athens, Greece)

Use of corticosteroids in patients with severe CAP admitted to ICU, experience in a real-life setting.
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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-AEOLOS study
Ioanna-Loustelsela Markou (Pikermi, Greece), Stavros Tryfon, Paschalis Steiropoulos, Alexandros Ginis, Aikaterini Athanassiu, Nikolaos Grekas

Comparison of a dry powder inhaler (DPI) to a pressurized metered-dose inhaler (pMDI) formulation of extra fine beclomethasone dipropionate/formoterol fumarate/glycopyrronium bromide (BDP/FF/GB) in patients with COPD: The TRI-D study.
Kai Michael Beeh (Wiesbaden, Germany), Piotr Kuna, Isabelle Viaux, 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 Nicolla, Carla Lopez Causape, Pablo A Fraile Ribot, Antonio Oliver, Francisco De Borja García Cosío

The distribution of blood eosinophil count in the IMPACT South America population
Jose R Jardim (São Paulo, Brazil), Valentina Di Boscio, Guri Y Levy, Alejandro Raimondi, Adrian Lijavetzky, Laura Jotmliansky, Sally Kilbride, Claudia Soares, David Lipson

Stability of eosinophils in patients with chronic obstructive pulmonary disease (COPD) and one hospital admission
Elena Garay Llorente (Barakaldo, Spain), Eva Tabernerog Huguett, Beatriz Gonzalez Quero, Laura Ansla Marlasca, Joseba Andia Iruarte, Borja Ortiz De Urbina Antia, Milagros Iriberrir Pascual, Patricia Sobradillo Eceñaro

Stability of sputum and blood eosinophil levels in COPD
Augusta Beech (Manchester, United Kingdom), Simon Lea, Umme Kolsum, Natalie Jackson, Paul Hitchen, Sophie Woloszanka, Dave Singh

The impact of eosinophil levels on current prescribing in COPD
Louise Ann Flint (Leeds, United Kingdom), Doychin Dimov

Burden of disease among exacerbating patients with eosinophil COPD treated with triple therapy in Spain
Esther Mariscal (madrid, Spain), Marc Miravitlles, Guadalupe Sánchez, Andrea García, Maribel Cuesta, Estefany Uriá, Bernardo Alcázar, Francisco García-Rio

Microbiome Use to Stratify Inhaled Corticosteroids in Chronic Obstructive Pulmonary Disease (MUSIC) trial: baseline data and impact of inhaled corticosteroid withdrawal in severe COPD with frequent exacerbations
Hollian Richardson (Dundee, United Kingdom), Clare Clarke, Mike Lonergan, Heather Barclay, Megan Crichton, Jennifer Pollock, Simon Finch, Pauline Billingham, Furrah Hussain, Andrew Mackenzie, Diane Cassidy, Margaret Band, Andrew Smith, Mohammad Paracha, Gourab Chowdhury, Devesh Dhasmana, Rekha Chaudhuri, Philip M Short, Holly R Keir, Alison J Dicker, James D. Chalmers
Barriers and motivators to use eHealth in primary care asthma and COPD patients according to health care professionals
Esther I. Metting (Groningen, Netherlands), Claudine Dobelaar

Primary care management of asthma in Malaysia: findings of the Klang Asthma Cohort Study
Su May Liew, Nik Sherina Hanafi, Ahmad Ihsan Abu Bakar, Ee Ming Khoo, Hilary Pinnock, Yong Kek Pang, Asiah Kassim, Ping Yein Lee, Sazlina Shariff Ghazali, Ai Theng Cheong, Azainorsuzila Mohd Ahad, Rizawati Ramli, Izan Ishak, Bee Kliau Ho, Salbiah Mohd Isa, Harzana Harrun, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Chiu Wan Ng, Karuthan Chinna

What motivates primary healthcare practitioners to refer patients with Chronic Obstructive Pulmonary Disease (COPD) to Pulmonary Rehabilitation? A survey using the Theoretical Domains Framework.
Jane Watson (Cambridge (Cambridgeshire), United Kingdom), Rachel Jordan, Peymane Adab, Alex Enocson, Stephanie Taylor, Hilary Pinnock

Methodological insights from pre-pilot phases of two complex respiratory interventions (IMP2ART; TANDEM)
Kirstie McClatchey (Edinburgh, United Kingdom), Elizabeth Steed, Susan Morrow, Ratna Sohanpal, Stephanie Taylor, Hilary Pinnock

Tackling COPD misdiagnosis in primary care through integrated care
Ketan Patel (Colchester, United Kingdom), Andy Dickens, Alice M Turner

Planned primary health care asthma contacts during 12-year follow-up after Finnish National Asthma Programme: focus on spirometry
Jaana Takala (Seinäjoki, Finland), Pinja Ilmarinen, Leena Tuomisto, Iida Vähätalo, Onni Niemelä, Hannu Kankaanranta

Exploring the provision of supportive care for patients with severe, life-limiting COPD in Malaysia
Su May Liew (Kuala Lumpur, Malaysia), Ee Ming Khoo, Hilary Pinnock, Sylvia McCarthy, Zee Nee Lim, Yong Kek Pang, Nik Sherina Hanafi, Norita Hussein, Ahmad Ihsan Abu Bakar, Aziz Sheikh

QUALITY OF LIFE OF PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND THEIR CAREGIVERS
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez-Hernández, Laura Arely Martínez-Bautista, Arturo Orea-Tejeda, Karen Santillán-Reyes, Guadalupe Lizzbett Luna-Rodríguez, Martha Elena Quintero Martínez

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, Suhaseli Abdullah, Azahul Abdul Samad, Rizawati Ramli, Azainorsuzila Mohd Ahad, Hilary Pinnock, Sheikh Aziz

Impact of guideline awareness on the counseling of patients with acute cough among general practitioners and pharmacy personnel
Ulrike Sent (INGELHEIM AM RHEIN, Germany), Guido Bissmann, Peter Kardos, Kai Michael Beeh

Respiratory Improvement Programme: COPD reviews in Primary Care by Physician Associates
Sarah Sibley (Altrincham (Cheshire), United Kingdom), Emma Rickards, Dennis Wat, Cenk Alhan, Xi Chen, Laura Pilling, Hannah Sefton, Kate Mottershead, Sonika Jalota, Hannah Alderson

Chronic cough in routine clinical practice: a UK retrospective cohort study
James H. Hull (London, United Kingdom), Zia Ul-Haq, Haya Langerman, Tahereh Kamalati, Amazigom Mayes, Amanda Lucas, Mark L. Levy

Recognition and management of chronic wet cough in Aboriginal children: a knowledge translation approach
Pamela Laird (Perth, Australia), Mary Lane, Roz Walker, James Totterdell, Anne Chang, André Schultz

Long-term condition (LTC) review templates in clinical consultations: A mixed-methods systematic review
Kirstie McClatchey (Edinburgh, United Kingdom), Mary Morrissey, Elizabeth Shepherd, Emma Kinley, Hilary Pinnock

COPD diagnosis and treatment in the primary care setting: adherence to GOLD guidelines is far away
Ioanna Tsiouprou (, Greece), Dionisis G. Spyridos, Diamantis Chloros, Dionisia Michalopoulou, Konstantinos Christoglou, Lazaros Sichletidis

Selection of patients with chronic obstructive pulmonary disease for participation in self-management programs.
Lidiya Koukol (St. Petersburg, Russian Federation)

Major global discrepancies in guidelines for sore throat (acute pharyngitis)
Graca Coutinho (Paco de Arcos, Portugal), Martin Duerden, Aurelio Sessa, Attila Altiner, Sergio Caretta-Barradas
Late Breaking Abstract - Differences in forced oscillation measurements in different ventilatory defects
Sabina Kostorz-Nosal (Tarnowskie Gory, Poland), Dariusz Jastrzębski, Dariusz Ziora

Automated volumetric quantification of lung emphysema: comparative analysis of different software products results.
Nadezda Griva (Saint-Petersburg, Russian Federation), Pavel Gavrilov

Lactate level in stable COPD patients
Aylin Pihtili (Konya, Turkey), Konul Mammadova, Esen Kiyan

Triple therapy with Fluticasone furoate/Umeclidinium/Vilanterol compared with dual bronchodilation or triple therapy with inhaled corticosteroids/dual bronchodilation in patients with chronic obstructive pulmonary disease
Naoko Harada (Kawasaki, Japan), Kengo Otsuka, Atsuo Horiuchi, Yoko Shinka, Hiroyuki Yamamura, Naoki Miyao

The clinical characteristics of eosinophilic chronic obstructive pulmonary disease: A cohort study
Ying Ju Lin (Yunlin County, Taiwan), Shu-Hua Chang, Yen-Fu Chen

The clinical importance of centrilobular enfisema in COPD patients: its impact on the BODE index.
Rosa Planas Bolba (Ileix, Spain), Anna Montcusi Moix, Sally Santisteve, Juan Pablo De Torres Tajes, Ferran Barbe Illa, Jessica González Gutiérrez

The differences between Helium Dilution and Body Plethysmography and its relationship with airway resistance
Michela D'Ascanio (Roma (RM), Italy), Fausta Viccaro, Noemi Calabro, Dario Pizzirusso, Giulio Guerrieri, Claudia Salvucci, Alberto Ricci

The role of neutrophil/lymphocyte ratio in acute exacerbations of chronic obstructive pulmonary disease COPD
Wei-Chih Chen (Taipei, Taiwan), Desiree Schumann, Michael Tam, Daiana Stolz

Sputum rheology and bacteriology in stable and exacerbated chronic obstructive pulmonary disease
Azza Slim (Tunis, Tunisia), Abir Hedhli, Meriem Mjid, Yassine Ouahchi, Sana Cheikh Rouhou, Jouda Cherif, Sonia Toujani, Samira Merai

Prognostic markers of COPD patients followed by 10 years in a specialized center in Brazil.
Julia Fortes Crê (, Brazil), Ana Carolina Borges Amaral, Luis Otavio Buassali Fredini, Leonardo Polito Bianchini, Soraia Quaranta Damião, Ana Julia Consoli Alvarez, Guilherme Meira Sacardo, Elie Fiss, Monica Silveira Lapa

Prediction of vascular-platelet hemostasis disorders in patients with chronic obstructive pulmonary disease COPD
Yuliia Huba (Dnipropetrovsk, Ukraine), Lyudmila Konopkina

Radiological prevalence of emphysema on low dose computed tomography(LDCT) in ever-smokers with a normal spirometry
Lancelot Pinto (Montréal (QC), Canada), Aditi Joshi, Reyma Raju, Ashok Mahashur

The Extended Salford Lung Study: an EHR-based extension of the SLS trials
Jeanne Pimenta (Middlesex, United Kingdom), Wilhelmine Meeraus, Richard Yeatman, Alan Barth, Tanith Hjelmbjerg, Jamila Astrom, Loretta Jacques, Sheila Meckikindale, Mark Fry

Low level of serum free triiodothyronine can be a predictor of long-term mortality after COPD exacerbations
Joanna Milkowska - Dymanowska (Łódź, Poland), Paulina Laskowska, Piotr Łacwik, Sebastian Majewski, Pawel Górski, Wojciech J. Piotrowski, Adam J. Bielas

Prevalence of infradiagnosis of COPD in women by screening with a portable COPD-6 device in Primary Care
Miguel Sanz Jimenez (Santander (Cantabria), Spain), Juez Carlos Lopez Caro, Estibaliz Arroita, Jesus Sainz, Francisca Gomez, Pablo Gonzalez, Nicanor Valle, Mariano Rodriguez, Margarita Hierro, Mª Concepción Astraña, Montse Gonzalez, Juan Luis Garcia-Rivero

Benralizumab effectiveness on quality of life of severe eosinophilic asthmatics in real life
Carla Maria Irene Quarato (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Mariapia Venuti, Santamaria Sonia, Fuso Paolo, Maria Cristina Cofanardi, Giovanna Elissiana Carpagnaro, Maria Pia Foschino Barbaro
TLCO is associated with phenomenological ageing markers in COPD patients of the COSYCONET cohort
Stefan Karrasch (Munich, Germany), Veronika Graf, Angelika Kronseder, Tanja Lücke, Rudolf A. Joerres

Cognitive decline following an acute exacerbation of COPD (AECOPD)
Grace France (Leicester, United Kingdom), Mark W Orme, Neel J Greening, Michael C Steiner, Sally J Singh

Pulmonary hemodynamics and clinical manifestations of COPD patients: is there a relationship?
Elena Klester (Barnaul (Altai Region), Russian Federation), Alexandra Balitskaya, Karolina Klester, Alexander Zharkov, Maria Nikolayeva

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

E-poster session: Scientific advances in airway pharmacology

Disease(s): Airway diseases  Respiratory critical care
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)

Late Breaking Abstract - Inhaled corticosteroids in bronchiectasis is associated to increased morbidity, Pseudomonas colonization and mortality - a five-year prospective cohort study
Kjell Erik Julius Håkansson (København N, Denmark), Katrine Fjællegaard, 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 Chłoń-Rzępa, Krzysztof Pociecha, Artur Świerczek, Elżbieta Wyska, Paulina Koczurkiewicz-Adamczyk, Elżbieta Pękala, Reinoud Gosens

Late Breaking Abstract - Add-on mepolizumab for chronic rhinosinusitis with nasal polyps: SY NAPSE study
Claire Hopkins (London, United Kingdom), Claus Bachert, Wytske Fokkens, Martin Desrosiers, Martin Wagenmann, Stella Lee, Ana Sousa, Steven Smith, Neil Martin, Bhabita Mayer, Robert Chan, Joseph Han

Safety, pharmacokinetics and pharmacodynamics of BI 1323495 in healthy males
Michael Desch (Biberach, Germany), Regina Sennewald, Anastasia Elefteraki, Harald Kögler, Claudia Diefenbach

Arrhythmogenic and chronotropic effects of bronchodilator drugs on human cardiomyocytes
Martin Ščurek (Ostrava 8, Czech Republic), Martin Pešl, Jan Přibyl, Šárka Jelinková, Tomáš Urban, Vladimir Rotrek, Kristián Brat

Transient receptor potential vanilloid 4 channels mediate resistive breathing-induced acute lung injury.
Dimitrios Toumpanakis (Athens, Greece), Athanasia Chatzianastasiou, Vyronia Vassilakopoulou, Eleftheria Mizi, Stamatios Theocharis, Theodoros Vassilikopoulos

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 Snellgrove, 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, Thomas Markou, Annika Borde, Anders Cavallin, Therese Ericsson, Ramon Hendrickx, Ann Aurell Holmberg, John Steele, Maria Belvisi, Mark Birrell

In vitro and in vivo characterisation of the novel neutrophil elastase inhibitor BI 1323495
Stefan Kreideweiss (Biberach, Germany), Annette Schuler-Metz, Christian Gnammm, Stefan Peters, Thorsten Oost

Long-acting bronchodilators improve lipopolysaccharide-induced swine airway hypersecretion as well as the abnormal acidification in pH
Hidemi Aritake (Sendai, Japan), Tsutomu Tamada, Koji Murakami, Shunichi Gamo, Masayuki Nara, Hisatoshi Sugiura, Masakazu Ichinose
### ERS 2020 International Congress

#### DETAILED PROGRAMME

**MONDAY 24 AUGUST, 2020**

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<td><strong>E-poster session: Monitoring of inflammation in remodelling</strong></td>
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**Disease(s):** General respiratory patient care, Cell and molecular biology, Pulmonary function testing, Epidemiology, Physiology

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

**Chairs:** Stylianos Loukides (Athens, Greece), Antonio Spanevello (Milan, Italy)

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<td><strong>Late Breaking Abstract - Biological determinants of sputum rheology in chronic airway diseases</strong></td>
<td>Jeremy Charriot (Montpellier, France), Mathilde Volpato, Jérôme Vialaret, Christophe Hirtz, Carey Suehs, Eric Matzner-Lober, Isabelle Vacher, Nicolas Molinari, Arnaud Bourdin</td>
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<td><strong>Exogenous HSP60 stimulates airway smooth muscle cell remodeling via MAPK p38 pathway</strong></td>
<td>Junling Li (Basel, Switzerland), Lei Fang, Daiana Stolz, Michael Tamam, Michael Roth</td>
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<td><strong>Adipokine mediators in asthma and COPD are affected by sex and age</strong></td>
<td>Lars I. Andersson (Stockholm, Sweden), Anna James, Sven-Erik Dahlén, Apostolos Bossios, On Behalf Of The Bioair Consortium</td>
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<td><strong>Correlation of serum Matrix metalloproteinase-9 and clinico-functional parameters in COPD patients</strong></td>
<td>Sanja Dimic-Janjić (Beograd, Republic of Serbia), Branislava Milenkovic, Mihailo Stjepanovic, Jelena Jankovic, Jelena Ćveje, Ivan Milivojevic</td>
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<td>**Endothelial injury in COPD assessed by microalbuminuria (M A B) and von Willebrand factor levels (vWf:Ag) and activity (vWf:Fc)  **</td>
<td>Athanasios Konstantinidis (Ioannina, Greece), Christos Chronis, Christos Kyriakopoulos, Evangelia Papapetrou, Christina Tsoaousi, Athina Tatsioni, Athina Gogali, Christos Katsanos, Katerina Vaggeli, Vanessa Bellou, Maria Kosta, Aggeliki Spanou, Charikleia Tselepi, Alexandros Charisis, Georgios Daskalopoulos, Stavros Constantopoulos, Konstantinos Kostikas</td>
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<td><strong>Establishing normal ranges for induced sputum cell counts in Singapore</strong></td>
<td>Yu Ling Ng (Singapore, Singapore), Tunn Ren Tay, Mariko Siyue Koh, Xue Ning Choo, Anthony Yii</td>
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<td><strong>How different operators performing sputum eosinophil differential cell counts may affect clinical decisions for severe asthma patients.</strong></td>
<td>Gàël Tavernier (Manchester (Greater Manchester), United Kingdom), Phillipa Aspin, Stephen, J Fowler, David Allen, Robert Niven</td>
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<td><strong>Eosinophil-derived neurotoxin concentrations indicate lower circadian variation than eosinophils in healthy volunteers and patients with asthma</strong></td>
<td>Simon Young (Melbourn, United Kingdom), Farhat Syed, Nisha Kurian, Bert Rutten, Rikard Isaksson, Adam Platt, Glen Hughes</td>
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<td><strong>Comparison of demographic, functional and inflammatory features between atopic and non atopic asthmatics. Retrospective study on a large cohort of patients.</strong></td>
<td>Sara Gerday (Liége, Belgium), Florence Schleich, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis</td>
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<td><strong>Streptococcus pneumoniae augments inflammatory process in asthma model without changing Th2 profile</strong></td>
<td>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, Clarice Rosa Olivo</td>
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Correlation between Blood Eosinophilia and Fractional Exhaled Nitric Oxide in the diagnosis of Asthma within Primary Care.
Lesley Farrell (, United Kingdom), Sudip Ghosh, Gailash Panray

The association between airway and systemic eosinophilia and symptoms and exacerbations differ between asthma and COPD patients
Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Uffe Bødtger, Kerstin Romberg, Leif Bjørmer, Jonas Erjefält, Karsten Kristiansen

Lower muscle mass is related to poorer clinical outcomes in moderate to severe asthma
Edith Visser (Leeuwarden, Netherlands), Ari-Jan Azad, Tim Van Zutphen, Huib Kerstjens, Anneke Ten Brinke, Kim De Jong

Distribution of T2 markers in real-life patients with asthma, COPD and asthma+COPD from the BREATHE study
Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Laurits Frøssing, Alexander Silberbrandt, Uffe Bødtger, Kerstin Romberg, Leif Bjørmer, Jonas Erjefält, Karsten Kristiansen

Relationship between clinical and radiological signs of bronchiectasis in COPD patients: Results from COSYCONET
Kathrin Kahnert (München, Germany), Rudolf Jörres, Hans-Ulrich Kauczor, Bertram Jobst, Jürgen Biederer, Frank Biertz, Peter Alter, Jürgen Behr, Pontus Mertsch, Franziska Trudzinski, Robert Bals, Tanja Lucke, Henrik Watz, Claus Vogelmeier, Tobias Welle

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

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 Kahlraman, Aylin Tanriverdi, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci

Pain is associated with balance and gait impairment in people with Chronic Obstructive Pulmonary Disease (COPD).
Kirsti J Loughran (Billingham, United Kingdom), Greg Atkinson, John Dixon, Denis Martin, Samantha L Harrison

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 Vigueras, 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, Kwok, Amanda Meanulty, Jennifer Alison

Working memory impacts endurance for dyspnea
Kazuhiro Kimpara (hamamatsu, Japan), Shinichí 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

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

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 M ultidimensional Dyspnea Profile in outpatients with respiratory disease
Buse Ozcan Kahraman (Izmir, Turkey), Turhan Kahraman, Ismail Ozsoy, Aylin Tanriverdi, Ashi Papurcu, Nazenin Hande Sezgin, Karya Polat, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci

Impact of a Specialist Breathlessness Group
( ), 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

E-poster session: Translational therapeutic advances

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

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

Chairs : Pieter S. Hiemstra (Leiden, Netherlands), Manuela Platé (London, United Kingdom)

Late Breaking Abstract - Mapping fibroblast activity in IPF - the instructive lung ECM
Anna Löfdahl (Lund, Sweden), Linda Elofsson Rendin, Xiao-Hong Zhou, Göran Dellgren, Martin Silverborn, Leif Bjerner, Gunilla Westergren-Thorsson

Late Breaking Abstract - Copper-heparin counteracts elastase-induced emphysema formation
Rob Janssen (Nijmegen, Netherlands), Iantje Piscaer, Loes E.M. Kistemaker, Reinoud Gosens, Frits M.H. Franssen, Emiel F.M. Wouters, Hendrik W. Frijlink

Modelling alveoli on a breathing lung-on-chip in health and disease
Alberto Hidalgo (Saarbrücken, Germany), Clementine Richter, Patrick Carius, Nuria Roldan, Janick Stucki, Nina Hobi, Nicole Schneider-Duam, Calus-Michael Lehr

Modeling alveolar barrier disruption in vitro for sepsis-induced ARDS preclinical studies
Nuria Roldan Lopez (Bern, Switzerland), Giulia Raggi, Kleanthis Fytianos, Jessica Petracca, Janick Stucki, Fabian Käsermann, Nina Hobi

Combined cell therapy and anticoagulants for acute respiratory distress syndrome
Marta Campriu-Rimblas (Molins de Rei, Spain), Aina Areny, Raquel Guillamat-Prats, Luis Morales-Quinteros, Neus Tantinyà, Josep Bringué, Lluis Blanch, Antonio Artigas
**LSC - 2019 - pSTAT5-SOCS1 signalling as a novel pathway in macrophage metabolic reprogramming by Mesenchymal Stromal Cells (MSCs) in ARDS**

**Intratracheal application of healthy lung derived Mesenchymal Stem Cells (DON-MSC) in the form of biospheres (BS) as potential therapeutic agents for chronic lung disease**

Andreas Jahn (Palma De Mallorca, Spain), Carlos Rio, Aina Martin-Medina, Amanda Iglesias Coma, Josep Mercader Barceló, Orlando Gigirey, Christina Villena, Ernest Sala Lınas

**CCR2: A potential target for lung injury resolution**

Andres Felipe Villabona-Rueda (Baltimore, United States of America), Qiong Zhong, Ye Xiong, Tsvi Palmer, Franco D’Alessio

**Azithromycin maintains barrier integrity in a cell model of ventilator induced lung injury**

Jon Joelsson (Garðabær, Iceland), Ivona Myszor, Snaevar Sigurdsson, Fredrik Lehmann, Clive Page, Gudmundur Gudmundsson, Thorarinn Gudjonsson, Sigurbørgur Karason

**Transforming growth factor beta (TGF-β) pathway activation by IPF fibroblast-derived soluble factors is mediated by IL-6 trans-signaling**

Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Elizabetha Brook, David Shitrit

**Growth hormone releasing hormone-receptor antagonist MIA-602 modulates lung inflammation, cellular signal transduction, and promotes apoptosis of mouse lung fibroblasts**

Jason Zhang (, United States of America), Roger Cuir, Tian Runxia, Ren-Zhi Cai, Mehdi Mirsaedi, Andrew Schally, Robert M. Jackson

**6-aminonicotinamide ameliorates pulmonary fibrosis by suppressing the TGF-beta1 activated Smad signalling pathway**

MIAE KIM (Seoul, Republic of Korea), Hak-Su Kim, Su-Jin Moon, Hyun Ju Yoo, Jin Woo Song

**Antifibrotics effects of nintedanib on lung fibroblasts derived from patients with progressive fibrosing interstitial lung diseases**

Audrey Joannes (RENNES, France), Claudie Morzadec, Francisco Llamas Gutierrez, Dan Cristian Chiforeanu, Bertrand Richard De Latour, Lutz Wollin, Stéphane Jouneau, Laurent Vernhet

**Profibrotic implication of platelet-activating factor in tuberculous pleural effusion**

Chi-Li Chung (Taipei, Taiwan), Mei-Chuan Chen, Jie-Heng Tsai, Cheng-Ying Hsieh

**SDF-1 is an antifibrotic mediator in vivo**

Amiq Gazdhar (Schlieren b. Kôniz, Switzerland), Kleanthis Fytianos, Ronja Schliep, Sofia Mykoniatı, Petra Khan, Katrin Hostettler, Lars Knudsen, Thomas Geiser

**Fezagepras (PBI-4050) attenuates bleomycin-induced lung fibrosis, inflammation, ER stress and apoptosis**

Martin Leduc (Laval (QC), Canada), Mikael Tremblay, Alexis Perreault, François Sarra-Bournet, Jean-Christophe Simard, Liette Gervais, Alexandre Laverdure, Alexandra Felton, Lyne Gagnon, Brigitte Grouix

**Curcumin alleviates alveolar apoptosis and epithelial mesenchymal transition in bleomycin induced lung injury and fibrosis through IL-17A and TGFβ1 pathways**

Yashodhar Bhandary (Derliakatte , Dakshina Kannada, South Karnataka, India), Manesh Gouda, Sadiya Shaikh, Ashwini Prabhu, Mohd Altaf Najar, Ts Keshava Prasad, Irfan K, Prashant K Modi

**FGFR4 has pro fibrotic properties in Idiopathic Pulmonary Fibrosis**

Mada Ghanem (Paris, France), Aurélien Justet, Madeleine Jailliet, Mouna Hachem, Tiara Boghanim, Aurélie Vadel, Arnaud Mailleux, Bruno Crestani

**Fibrosis-specific stem-like cells in peripheral IPF lung: Characteristics and potential role**

Katrin Esther Hostettler (Basel, Switzerland), Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Amiq Gazdhar, Thomas Geiser, Michael Tam

**LSC - 2019 - The transcriptome of IPF fibrotic foci identifies the fatty acid metabolism as a critical pathway in fibrogenesis**

**Pre-congress content**

E-poster session: Imaging evaluation of chronic lung diseases

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

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

Frequency and patterns of lung involvement in patients with vascular Ehlers Danlos Syndrome: Chest computed tomography features and histological comparisons
Amira Benattia (Rouen, France), Samia Boussouar, Jean-Baptiste Escudié, Laure Gibault, Frederique Capron, Pierre-Yves Brillot, Philippe Grenier, Xavier Jeunemaitre, Elie Mousseaux, Michael Frank, Olivier Sanchez

Digital tomosynthesis in diagnostics and monitoring of chronic obstructive pulmonary disease
Irina Sincarenco (Chisinau, Republic of Moldova), Nicolae Nalivaico, Anna Moscoviciuc, Valentina Bolotnicova

Clinical presentation of Candida tracheobronchitis: diffuse and focal forms
Misuk Ji (Seoul, Republic of Korea), Hyun-II Gil, Hongseok Yoo, Hyun Lee

Diaphragm Efficiency Evaluation in Patients with Connective Tissue Diseases
Enikő Bárczi (Budapest, Hungary), Noémi Eszes, Anikó Bohács, Krisztina Vince, Bence Fejér, Ádám Domonkos Tárnoki, Dávid László Tárnoki, Kinga Karlinger, Veronika Müller

Impact of Computed Tomography during Chronic Obstructive Pulmonary Disease Exacerbation
Ihab JEBALI (ARIANA, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Nouha Guediri, Hafiaoua Daghfous, Fatma Tritar

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

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

Correlation between chest CT features and clinical characteristics of patients with bronchiectasis.
amal chennoufi (Tunis, Tunisia), Houda Rouis, Chirine Moussa, Alia Ezzaouia, Wajih Gheribi, Nada Akrimi, Ibtihel Khouaja, Amel Khattab, Ines Zendah, Habib Ghedira

Oropharyngeal swallowing pathophysiology in patients with idiopathic pulmonary fibrosis: A consecutive descriptive case series.
Rhys Jones, Chris Ward, Michael Drinnan, Alexander John Simpson, Michael Griffin, Joanne Patterson, Ian Forrest

Structural changes on high resolution computed tomography (HRCT) in adult individuals with a history of bronchopulmonary dysplasia (BPD)
Melvin Pourbazarag (Sundbyberg, Sweden), Sven Nyren, Petra Um-Bergström, Eva Berggren-Broström, Erik Melén, Rebecka Steern, Åsa M Wheelock, Anders Lindén, Reza Karimi, C Magnus Sköld

Transradial bronchial artery embolization for massive hemoptysis secondary to tuberculosis
Zili Meng (Shijiazhuang, China), Jia Meng, Yi Bai

Pre-congress content
Session 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
Elad Kaufman (South San Francisco, United States of America), Emma Gordon, 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 Cediliak, 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

A CADSET WP4 transcriptomic analysis of Asthma and COPD overlap
Ian M. Adcock (London, United Kingdom), Kai Sun, Nazannin Zoumenat Kermani, Lies Lahousse, K Fan Chung, Rosa Faner, Gavin Donaldson, Jadwiga Wedzicha, Alvar Agusti, Maarten Van Den Berge

EP4 agonist increases myeloid derived suppressor cells activity and reduces airway inflammatory events in a murine model of asthma
Saeed Kolahian (Tübingen, Germany), Chiel Van Geffen, Astrid Dießler, Sandra Beer-Hammer, Bernd Nürnberg

A novel protective role of prostaglandin D2 in antigen-induced bronchoconstriction
Jesper Säfholm (Solna, Sweden), Willem Abma, Jieliu Liu, David Balgoma, Johan Kolmert, Alexander Fauland, Craig E. Wheelock, Mikael Adner, Sven-Erik Dahlén

Bronchial thermoplasty for the treatment of asthma patients with COPD characteristics: an exploratory histopathological evaluation.
Eleni Papakonstantinou (Thessaloniki, Greece), Triantafyllia Koletsa, Michael Roth, Meropi Karakioulaki, Spasenija Savic, Leticia Grize, Michael Tamn, Daiana Stolz

Degeneration of nerve fibers in chronic obstructive lung disease and usual interstitial pneumonia
Johannes Leopold (Austria), Luka Brcic, Sylvia Eidenhammer, Wim Timens, Helmut H. Popper

IND/GLY/MF: synergism in medium and small human hyperresponsive airways
Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ivan Nikolaev, Mario Cazzola, Maria Gabriella Matera, Luigino Calzetta

The effect of inhaled corticosteroids on airway Na/K ATPase content in patients with asthma
Morten Hvithfeldt (København V, Denmark), Alexis Pulga, Åsger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Clausson, Jonas S Erjefält, Celeste Porsbjerg

GB001 potently inhibits PGD2 metabolite-induced DP2-mediated cell signaling and eosinophil activation
Susan Murphy (San Diego, United States of America), Taylor Ismaili, Kristen Taylor Meadows, Sunil Sahdeo, Hector Ortega, Laura Carter, Luisa Salter-Cid

Differential effects of pharmacological leukotriene pathway modulators in a human lung tissue explant model
Henric Olsson (Lund, Sweden), Stefan Vollmer, Lisa Israelsson, Julia Lindgren, Zala Jevnikar Rojnik

Pioglitazone inhibits obesity-related airway hyperreactivity
Zhenying Nie (Portland, United States of America), David Jacoby, Allison Fryer

Anti-inflammatory properties of synthetic and endogenous Rev-Erb-alpha agonists.
Eva Sturm (Graz, Austria), David Roula, Petra Luschnig, Iris Red, Akos Heinemann

P13K inhibitor add-on strategy improve glucocorticoid insensitivity in severe asthma
Zhihong Chen (Shanghai, China), Jin Bi, Zhihui Min, Chunling Du

Pre-congress content

Session 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

Evaluating the outcomes of patients with haemoptysis referred to two rapid-access lung cancer clinics in the UK
Jonathan Noble (Bristol, United Kingdom), Helen Mcdill, Clemency Clarke, Eleanor Barton, Martin Plummeridge, Anna Bibby, Andrew Low

Rationalising the lung cancer diagnostic pathway with CT triage; a single centre UK experience.
Eleanor Barton (Bristol, United Kingdom), Helen Mcdill, Jonathan Noble, Martin Plummeridge, Anna Bibby

The role of a dedicated chest x-ray reporting tool in the lung cancer diagnostic pathway
Helen Mcdill (Bristol (Avon), United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Anna Bibby, Andrew Low

The travel burden for patients diagnosed with lung cancer at a District General Hospital in South East London.
Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alvey
Route of referral correlates to lung cancer stage and with outcomes at a District General Hospital in South East London.
Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn

RAPID lung cancer diagnostic and care pathway from referral to treatment
Adnan Amir (Hull, United Kingdom), Alison Spray, Nicola Haley, Rachel Miller, Alison Gill

Transforming the Portsmouth Hospitals Lung Cancer Pathway (LCP)
Lauren Fox (Southampton, United Kingdom), David Lodge, Kate Bentley, Laura Wiffen, Clare Bradley, Mohamed Ibrahim, Alexander Hicks

Does a MultiDisciplinary Team approach affect time to treatment in NSCLC?
Fausto Leoncini (Montespertoli (FI), Italy), Guido Levi, Mauro Novali, Federico Quadri, Elsa Martinelli, Michela Bezzi

Factors associated with lung cancer in patients referred to a fast-track clinic
Helen Mcdill (Bristol (Avon), United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Andrew Low, Anna Bibby

Nutritional assessment for patients with lung cancer
abdmouleh khouloud (Sfax, Tunisia), Ayadi Hajer, Kallel Nessrine, Yangui Ilhem, Feki Walid, Kammoun Sami

Correlation of Imprint and Crush cytology with Bronchoscopic biopsy in the diagnosis of Bronchogenic carcinoma
Pratikchya Karki (Biratnagar, Nepal), Ashesh Dhungana, Samir Neupane

Evolution in the pathological study of lung cancer
Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Esther Sanchez, Maria Carmen Fernandez Aguirre

Towards personalized treatment in non-small-cell lung carcinoma
Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Ester Sanchez Alvarez, Maria Carmen Vera Sanchez

EQ-5D-3L questionnaire for quality of life assessment among lung cancer patients
Baraa Ben Bdira (Monastir, Tunisia), Imen Gargouri, Wafa Benzarti, Sana Aissa, Asma Knaz, Abdelaziz Hayouni, Ahmed Abdelghani, Abdelhamid Garrouch, Mohamed Benzarti

Characteristics of lung cancer in our hospital in the last two years
Sofía Jaurrieta Largo (Valladolid, Spain), Rafael López Castro, Marta Belver Blanco, Blanca De Vega Sánchez, Vicente Roig Figueroa, Carlos Disdier Vicente

Our experience and outcomes following indwelling pleural catheter (IPC) insertion at the University Hospital Coventry and Warwickshire (UHCW) and the effect of primary tumour site on outcomes.
Viren Alluwalia (, 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 Blibeck, Donia Belkhir, Asma Zaafouri, Meriem Ben Rhouma, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Performance and safety of endoscopic procedures in superior vena cava syndrome
Catherine Boily-Daoust (Montréal (QC), Canada), Alexandre Plante, Cedrick Adam, Marc Fortin
Frailty in chronic respiratory disease: direction of response to pulmonary rehabilitation
Kola Akinlabi (London, United Kingdom), Binny Patel, Ken Johnston, Radoslav Trojak, Bunmi Adebajo, Gavin Sandercock

A profile of frailty in a population of stable COPD outpatients using supplemental oxygen
Ciara Gleeson (Co. Kildare, Ireland), Robert Keegan, Kate Devenney, Emer O'Shea, Julie Broderick

Outcomes of hospital-based pulmonary rehabilitation in patients with multimorbidity
Maria Koulouropoulou (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, Naciye Vardar Yagli, Kübra Kilic, Ebru Calik Kütükcü, Deniz Inal Ince, Saadettin Kilickap

Activities of daily living: a comparison between patients with COPD and ILD
Sara Souto-Miranda (Aveiro, Portugal), Ana Alves, Miguel P. Almeida, Angela Albuquerque, Carla Valente, Vitória Martins, Pedro Ferreira, Alda Marques

Occupational Performance in Patients with Bronchial Asthma
Melda Saglam (Ankara, Turkey), Husna Guzel, Serkan Pekctein, Naciye Vardar Yagli, Hasim Boyaci

The Association Between BODE Index and Activities of Daily Living, Occupational Performance, Psychosocial Status and Health Related Quality of Life in Patients with COPD
Beyza Nur Karaduz (Ankara, Turkey), Ebru Calik-Kutukcuk, Cigdem Oksuz, Melda Saglam, Deniz Inal-Ince, Naciye Vardar-Yagli, Sema Savci, Tulin Duger, Hulya Arikan, Lutfi Coplu

Minimal clinically important difference of the Brief-BESTest in COPD
Cátia Paixão (Guarda, Portugal), Patrícia 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
Anael Barberan-Garcia (Barcelona, Spain), Mar Montane-Muntane, Alicia Hervas, Pilar Hurtado, Betina Campero, Bábara Romano-Andrioni, Silvia Teres-Belles, Elena Gimeno-Santos, Josep Roca, Graciela Martinez-Palli

Physical activity “responders” vs “non-responders” after exercise training with air or oxygen in people with COPD and exercise-induced desaturation
Zoe McKeough (Sydney (NSW), Australia), Regina Leung, Anne Holland, Kylie Hill, Norman Morris, Sue Jenkins, Lissa Spencer, Catherine Hill, Annemarie Lee, Helen Seale, Nola Cecins, Christine Mcdonald, Jennifer Alison

Integrating Ambulatory Oxygen assessments into a specialist Interstitial Lung Disease (ILD) clinic
Jennie Turnbull (Maidstone, United Kingdom), Lynn Mcdonnell, Wai Lam-Richardson, Alex West, Amy Dewar

Does pulmonary rehabilitation (PR) affect dysfunctional breathing (DB) in asthmatics?
Franziska Ebert (Bad Reichenhall, Germany), Michael Schuler, Dennis Nowak, Larissa Schwarzkopf, Boglárka Szentes, Konrad Schultz

Functional ability in patients with COPD
Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Sara Souto-Miranda, Ana Tavares, Ana Oliveira, Cristina Jácome, Joana Cruz, Bruno Cabrita, Catarina Cascais Costa, Carla Valente, Vitória Martins, Lília Andrade, Paula Simão, Alda Marques

The effects of virtual reality on pulmonary functions, functional level and pain in the early period after open heart surgery
Zubeyr Tasci (İstanbul, Turkey), Yasemin Çirak, Nurgül Elbasi, Yunus Emre Tutuneken, Burcu Pamukcu, Aysegul Asalıoğlu

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

E-poster session: Screening and early lung cancer
Disease(s): Thoracic oncology Airway diseases
Method(s): General respiratory patient care Imaging Endoscopy and interventional pulmonology Cell and molecular biology Public health Surgery Pulmonary rehabilitation

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

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
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

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, Sergio Montes, Gorka Bastarrrika, Arantza Campo

Effect of the Liverpool Healthy Lung Programme on outcomes in Lung Cancer
Mark Ambrose (Liverpool, United Kingdom), Emily Hoodless, Michelle Woods, Martin Ledson, Martin Walsh

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

Prevalence of lung cancer in patients with atherosclerotic peripheral arterial disease: meta-analysis of literature data
FLORE BINTEIN (Paris, France), Alexandra Yannouostos, Gilles Chatellier, Manon Fontaine, Diane Damotte, Patricia Paterlini-Bréchet, Guy Meyer, Véronique Duchatelle, Valeria Marini, Karl-Léon Schwering, Cécile Labrousse, Hélène Beaussier, Marc Zins, Patrizia Paterlini-Bréchet

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, Chung-Ping Hsu, Cheng-Yen Chuang, Chih-Hung Lin, Chien-Hua Tseng, Kun-Chieh Chen, Gee-Chen Chang

What is the value of diagnostic bronchoscopy in haemoptysis patients with a normal or benign CT scan?
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson, Rebecca Lapsley, Rebecca Webster, Robert Johnston, Sarah Welsh, Dan Mitchell, Hussun-Ara Shah

Objective measurement of tumor central location can predict nodal involvement in patients with cT1N0M0 non-small cell lung cancer
Mireia Martinez Palau (Terrassa, Spain), Bruno Garcia Cabo, Teodora Pribic, Bienvenido Barreiro Lopez, Luis Esteban Tejero, Ramon Rami Porta, Sergi Call Caja, Carme Obiols Fornell, Mireia Serra Mitjans, Jose Sanz Santos

The prevalence of occult N2/3 NSCLC in tumours with a central location, size larger than 3cm or N1 disease on imaging: a single-centre retrospective study.
Felicity Liew (London, United Kingdom), Katherine Groom, Amy Shearer, Clare Ross, Rudy Sinharay

Detection of lung cancer micrometastases in lymph nodes aspirates by flow cytometry.
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecien, Rafal Sokołowski, Joachim G.J.V Aerts, Joanna Domagala-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 Filippou, Nikolaos Tzatzadakis, Thrasyvoulos Michos, Nantia Fili, Ioannis Stamatakis, Christina Balakera, Ilias Samiotis, Konstantinos Boublolis, Athanasios Kleontas

Experience with Radial endobronchial ultrasound for the diagnosis of bronchoscopically invisible lung lesions in a cancer hospital
Anurag Deshpande (Noida (Uttar Pradesh), India), Jeenam Shah, Ajay Ravi, Rajiv Goyal

Recognition of aberrant promoter methylation for early diagnosis of lung cancer patients
Supriya 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

Evaluation of Primary care access to CT scans for patients suspected Lung Cancer with normal chest x-ray
Amrithraj Bhatta (Manchester, United Kingdom), Anju Mirakhr, Marion Bennie

Stage I lung cancer patients with or without symptoms - are the patients any different?
Heidi Madsen (Århus N, Denmark), Ebbe Bredtoft, Torben Riis Rasmussen

Short Term Multidisciplinary Pulmonary Rehabilitation Is Effective In Early Stage Non Small Cell Lung Cancer
Seher Satar (Ankara, Turkey), Ipek Candemir, Pınar Ergun
Disease(s): Thoracic oncology, Interstitial lung diseases, Airway diseases

Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Surgery, Imaging, Pulmonary function testing, Physiology

Chairs: Rudolf M. Huber (Munich, Germany), Adrien Costantini (Paris, France)

Late Breaking Abstract - Effects of bronchoscopic tumor excision on prognosis of lung tumors causing bronchial obstruction
Huseyin Yildiran (Konya, Turkey), Guven Sadi Sunam, Atilla Can

Novel method for bronchial stump coverage for prevents postpneumonectomy bronchopleural fistula: pedicled thymopericardial fat flap, Retrospective analyzes of 98 patients
Kenan Can Ceylan (İzmir, Turkey), Güntüğ Batuhan, Şeyda Örs Kaya

Proportion of mediastinal lymph nodes that cross predefined borders on the IASLC map.
Øyvind Yksnøy (Ålesund, Norway), Dag Arne Lihaug Hoff, Bjorn Henning Grønberg, Sveinung Sørhaug, Kjetil Roth

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 Hardyman, Tasmin Sharley, Andrew Low

Francis-Edouard GRAVIER (Bois-Guillaume, France), Tristan Bonnevie, Fairuz Boujibar, Clément Medrinal, Guillaume Prieur, Yann Combret, Jean-François Muir, Jean-Marc Baste, David Debeaumont, Antoine Cuvelier

Characteristics and survival analysis of synchronous oligometastatic non-small cell lung carcinoma.
Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Teresa Almodôvar, José Duro Da Costa

Quality of life 3 months following lung cancer resection
Morten Borg (Aalborg SV, Denmark), Torben Hansen, Nanna Weigelt, Torben Riis, Anders 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 (İzmir, Turkey), Güntüğ Batuhan, 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 Ozgül, Ekrem Cengiz Seyhan, Efsun Uğur, Guler Ozgül, Erdogan Çetinkaya

Resected Non-Small Cell Lung Cancer : A 5-year Experience
Ahmed Haque (Gillingham, United Kingdom), Andrea Bille, Kolera Chengappa, Thomas Sanctuary, Vijaykumar Ganesh, Maria Acosta

Psychological distress and long-term recovery in lung resection patients
Janet Rodriguez Torres (Granada, Spain), Maria Granados Santiago, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Ascensión Rodríguez Rodriguez, Marie Carmen Valenza

Clinicopathologic features of patients with non-small cell lung cancer and chronic obstructive pulmonary disease undergoing lung cancer surgery
Sladjana Radosavljevic (Novi Sad, Republic of Serbia), Ilija Andrijievc, Jovan Matijasevic, Dusanka Obradovic, Stoja Krunic, Senka Milutinov Ilic, Aleksandar Bokan

A retrospective analysis of risk factors for Durvalumab related interstitial lung disease after chemoradiotherapy in Stage III NSCLC
Nobuyuki Hirama (Kanagawa, Japan), Masaki Yamamoto, Hiromi Kanaoka, Tatuya Muraoka, Kouhei Somekawa, Momo Hirata, Tisato Kamimaki, Syuuhei Ikeda, Sousuke Kubo, Usio Ryouta, Saki Manabe, Makoto Kudou, Takesi Kaneko

Performance status and body mass index : prognosis impact of their changes in patients with stage III NSCLC
Yasmine Hadidene (ariana, Tunisia), Hela Kamoun, Azza Slim, Amal Saidani, 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 (, Netherlands), Tess Kramer, Danielle Seinstra, 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 00:00 - 23:59
E-poster session: Molecular alterations and immunology in lung cancer

Disease(s): Thoracic oncology, Airway diseases, Respiratory critical care

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

Chairs: Wouter H. van Geffen (Leeuwarden, Netherlands)

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), Hiroto Tsutsunami, Yoshihisa Shiraishi, Koji Okamura, Keiichi Otaka, 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 Saito, Kouji Kuronuma, Hiroumi Chiba, Hiroki Takahashi

Molecular hallmarks of smoking in the autologous lung adenocarcinoma donors
Anne-Sophie Lamort (München, Germany), Mario A.A. Pepe, Sabine J. Behrend, Ioannis Lilis, Giannoula Ntaliarda, Magda Spella, Willem Kujawa, 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

IMMUNOLOGICAL EVENTS AND SURVIVAL IN LUNG CANCER PATIENTS WITH COPD
Jun Tang (China), Xuejie Wang, Liyun Qin, Victor Curull, Merce Mateu-Jiménez, Daniel Ramis-Cabrera, Lara Pijuan, Alberto Rodríguez-Fuster, Rafael Aguiló, Esther Barreiro Portela

Molecular profiling of Sq-NSCLC with enhanced FGFR1-4 and MET gene expression - NGS pilot study.
Joanna Moces-Sosnowska (Warsaw, Poland), Ewa Szczepulská-Wojcik, Adrianna Rozy, Renata Langfort, Piotr Rudzinski, Tadeusz Orlowski, Monika Skupinska, Delfina Popiel, Maciej Wieczorek, Aleksandra Stanczak, Joanna Chorostowska-Wynimko

Biomarkers of lung cancer based on the expression of genes, transposons and repetitive elements
Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalo Claros Diaz, Rocio Bautista Moreno

EV15 is an oncogene that regulates the proliferation and metastasis of NSCLC cells
Tingting Cai (China), Jieqi Zhou, Yang Zhang, Yuanyuan Zeng, Wenwen Du, Ting Liu, Yulong Fu, Jian-An Huang, Jianjie Zhu, Chunhua Ling, Zeyi Liu

The genetic expression LG13 (Leucine rich repeat LG1 family member 3) among different NSCLC cell lines and its effect on proliferation of cancer cells
Jongwook Shin (Seoul, Republic of Korea), Jae Woo Jung, Jae Chul Choi, Sang-Eun Lee, Hye-Young Yun

Immunomodulating properties of FasL + lung cancer cells identified in lymph nodes aspirates of NSCLC patients
Agata Raniszewska (Warszawa, Poland), Iwona Kwiecień, Elżbieta Rutkowska, Rafał Sokolowski, Joanna Domagała-Kulawiak
Immunosuppressive properties of human PD-1+ PDL-1+ dendritic cell from Lymph Nodes Aspirates of NSCLC patients.
Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Rafał Sokolowski, Joanna Bednarek, Agata Raniszewska, Karina Janhz-Różyk, Piotr Rzeepecki, Joanna Domagała-Kulawik

Caspase recruitment domain containing protein 9 suppresses non-small cell lung cancer proliferation and invasion via inhibiting MAPK/p38 pathway
Shuilian Zhu (China), Linyue Pan, Haiyan Ge

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

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

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

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
Chair(s): Peymane Adab (Birmingham (West Midlands), United Kingdom), Chair to be confirmed

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 Sorensen (Denmark), Ulla Møller Weinreich, Line Hust Storgaard

The association of FVC with quality of life - The PneumoL aus/PycLoL aus study
Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod

Presentation and management of primary and secondary spontaneous pneumothoraces in Ayrshire, 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

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 Zanolin, 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, 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, Sajani Darmadasa, Lakmi S.A., Iselda Nawerathna, Lihini 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, Ida Vähätalo, Emma Goksör, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Bo Lundbäck, Bright I Nwaru, Göran Wennergren

Socioeconomic impact of chronic cough in Northern Europe
Össur Ingi Emilsson (Uppsala, Sweden), Henrik Johansson, Ane Johannessen, Mathias Holm, Bertil Forsberg, Vivi Schlinnissen, 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 (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Manakov, Elena V. Polyanskaya

Analysis of medical and social factors of TB/AIDS 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 Manigrassò, Stefano Nardini

Real-world treatment patterns of mepolizumab therapy in Canada
Lawrence Mbuagbaw, Alain Gendron, Michelle L Knutson, Niroshan Sriskandarajah, Jason K Lee

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

E-poster session: Real-world data and registries of thoracic oncology
Disease(s): Thoracic oncology
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), Chair to be confirmed

Lung cancer survival in never smokers. Results from the LCRINS study
Ana Casal (vigo, Spain), Maria Torres, Isaura Parente, Mariano Provencio, Antonio Golpe, Carmen Montero, Iria Vidal, Virginia Leiro, Cristina Martinez, Olalla Castro, Alberto Fernandez, Luis Valdes, Alberto Ruano

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

Real-life effectiveness of first-line treatments in NSCLC patients stage IIIA/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 Hrnčiarik, Jana Krejci, Juraj Kultan, Ondrej Fischer, Milada Zemanova, Helena Coupkova, Tana Tuzova, Daniel Dolezal, Martin Safanda

The gendered experience of mesothelioma study (GEMS): findings from a survey data analysis
Michaela Senek (Sheffield, United Kingdom), Angela Tod, Steven Robertson

Natural course of asymptomatic malignant pleural effusion in non-small-cell lung cancer patients: a multicenter retrospective study
Jung Seop Eom (Busan, Republic of Korea), Ji Yeon Roh, Insu Kim, Hee Yun Seol, Min Ki Lee
Survival analysis for small cell lung cancer in never-smokers
Ji Young Park (Anyang-si, Republic of Korea), Seung Hun Jang, Hwan Il Kim, Sunghoon Park, Yong Il Hwang, Ki-Suck Jung

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 Svatоň, Vítězslav Kolek, Ondřej Fišer, Leona Koubková, Andrea Benejová, Ondřej Venclíček, Markéta Černovská, Libor Havel, Michal Hrnčiarik, Jaromír Roubec, Zemanová Milada, Petr Opálka, Jana Krejčí, Dan Krejčí, Helena Čoupková, Zdeněk Merta

Efficacy and prognostic factors of first-line afatinib treatment for the EGFR-mutated non-small cell lung cancer in the real-world
Tzu Hsuan Chiu (Taoyuan, Taiwan), Chi-Hsien Huang, Chih-Hsi Scott Kuo

Treatment sequencing in NSCLC EGFR+ - real-world data
Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso

Clinical and molecular features of V600E and non-V600E BRAF mutations in NSCLC - a retrospective monocentric observational study
caroline phillips (London, United Kingdom), Gesa Rafflenbeul, Torsten Gerriet Blum, Jens Kollmeier, Daniel Misch, Monica Schäfer, Susann Stephan-Falkenau, Anna Streubel, Sebastian Thiel, Thomas Mairinger, Torsten Bauer

Study of current trend of thoracic malignancy in 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

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

Pembrolizumab versus nivolumab as second and further line treatment in non-small cell lung cancer; a retrospective single-centre study
Maria Mitsogianni (Athens, Greece), Dimitrios Vassos, Ilias Kotteas, Vasileios Patriarcheas, Antonios Vassias, Lamprini Stournara, Ioannis Tourkantonis, Dimitra Charpidou, Konstantinos Syrigos

Osimertinib as a second-line treatment for EGFR-mutated non-small cell lung cancer: the experience of a Pulmonology department
Daniela Dantas Barreto Rodrigues (Barcelos, Portugal), Catarina Lacerda, Filipa Aguiar, Maria João Araújo, Diana Pimenta, Lurdes Ferreira

Progression after osimertinib in EGFR T790M -mutated non-small cell cancer patients
David Jorge Araújo Barros Coelho (Braga, Portugal), Catarina Sousa, Maria Jacob, Leonor Almeida, David Araújo, Helder Novais-Bastos, Adriana Magalhães, Conceição Souto Mora, Luis Cirnes, Venceslau Hespanhol, Henrique Queiroga, Gabriela Fernandes

IMPORTANT BENEFITS OF EBUS-TBNA IN ASSESSING PD-L1 EXPRESSION IN NSCLC
Gianna Vargas Centanaro (Madrid, Spain), Elena Forcen, Beatrix 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 Castañon Perez (Burgos, Spain), Gustavo Gutiérrez Herrero, Haizea Álvarez Martínez, Pablo Lozano Cuesta, Omar Sánchez Martin, Maria Arias Fuente, Lucia Castallanos Romero, Luis Carlos Rodriguez Pascual

Effectiveness of oral metronomic Vinorelbine versus Docetaxel as second-line treatment in Non-Small Cell Lung Cancer patients in real life
Angeliki Rapti (Lagonisi-Athens, Greece), Asimina Nikolakopoulou, Konstantinos Tzimopoulos, Emily Tsaroucha, Katerina Kawvada

Pre-congress content

Session 00:00 - 23:59

E-poster session: Thoracic surgery: lung cancer and infectious disease

Disease(s): Thoracic oncology, Pulmonary vascular diseases, Airway diseases

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

Chairs: Luca Bertolaccini (Milan, Italy), Chair to be confirmed
Pre-congress content

Session 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 disease  Pulmonary vascular disease

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)

Late breaking abstract - The guillotine technique for artery and bronchus in VATS lobectomy
Huseyin Yildiran (Konya, Turkey), Guven Sadi Sunam

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
Multidisciplinary approaches in the surgical treatment of cicatrical stenosis of the trachea.  
Rustem Hayaliev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otabek Eshonkhodjaev

Is it futile to perform blindly apical wedge resection in primary spontaneous pneumothorax surgery?  
Cagatay Tezel (Istanbul, Turkey), Mustafa Vayvada, Yelda Tezel

Thoracic surgery in the elderly  
Filipa Lemos e Aguiar (Paredes, Portugal), Pedro Fernandes, Miguel Guerra

Individualized flow controlled ventilation compared to pressure controlled ventilation in one lung ventilation - a prospective, randomized porcine study  
Patrick Spraider (Innsbruck, Austria), Julia Abram, Manuela Ranalter, Simon Mathis, Gabriel Putzer, Judith Martini

Pleurectomy/decortication for malignant pleural mesothelioma: a single-centre experience.  
Lawek Berzenji (Wilrijk, Belgium), Dario Michaux, Suresh Krishan Yogeswaran, Annemie Van Breussegem, Patrick Lauwers, Jo Raskin, Jeroen Hendriks, Jan Van Meerbeeck, Paul Van Schil

Efficacy of lung volume reduction surgery in tracheotomized patients and weaning failure  
Ali Akil (Ibbenbueren, Germany), Stephanie Rehers, Stephan Ziegeler, Mahyar Lavae-Mokhtari, Erik Ernst, Stefan Fischer

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

Video-assisted thoracic surgery for patients with bronchiectasis  
Güntug Batihan (Izmir, Turkey), Kenan Can Ceylan, Şeyda Örs Kaya, Ozan Usluer, Soner Gürsoy

Feasibility of extracorporeal membrane oxygenation in high-risk thoracic surgery  
Jae Heun Chung (Republic of Korea), taehwa kim, Yun Seong Kim, Eun Jeong Son, Jin Ho Jang, Jinook Jang

Primary tracheal tumors: characteristics and management  
Aymen Ben Ayed (Ariana, Tunisia), Imen Bouaccida, Hazem Zribi, Mahdi Abdennadher, Mouna Mlika, Amira Dridi, Adel Marghli

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

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

Could staple-line reinforcement on video-assisted thoracoscopic blebectomy prevent postoperative recurrent pneumothorax?  
Masao Naruke (Tokyo, Japan)

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

Single unit experience in lobectomy for lung malignancy over a period of 2 years from a Tertiary care Respiratory hospital in Sri Lanka  
Dilanka Tilakaratne (Colombo, Sri Lanka), Saman Pradeep, Anusha Kumuduni, Dhananjaya Wanigarthne, Ramani Punchihewa, Eshanth Perera, Dhammike Rasnayake

Prognostic factors in lung cancer: is preoperative Geriatric Nutritional Risk Index an independent predictive factor?  
Beatriz Abascal Bolado (Santander, Spain), Laura Sanchez Moreno, Teresa Diaz De Teran Lopez, Pablo Lozano Cuesta, Victoria Maderuelo, Claudia Loidi Lopez

Evolution of upper limb exercise capacity from surgery to after one-year lung cancer resection  
Alejandro Heredia Ciuró (Granada, Spain), Andrés Calvache Mateo, Esther Prados Román, Janet Rodríguez Torres, Florencio Quero Valenzuela, María Carmen Valenza

Comparison of morphological and densitometric indicators of the inflammatory process activity for substantiation of the optimal terms of surgical treatment in patients with various forms of TB  
Oleksii Denysov (Kyiv, Ukraine), Mykola Gumieniuk, Mykola Lynnyk, Galina Gumieniuk, Igor Kalabukha, Eugene Maietryi
E-poster session: Prognostic and predictive factors: treatment of lung cancer

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

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

**Chairs:** Joanna Domaga a-Kulawik (Warszawa, Poland), Dragana M. Jovanovi (Beograd, Republic of Serbia)

- **The importance of Ki-67 proliferation index in small cell lung cancer**
  Sedey Beyhan Sagmen (Istanbul, Turkey), Coskun Dogan, Sevda Comert, Nesrin Kiral, Elif Torun Parmaksiz, Ali Fidan, Nagehan Ozdemir Barisik, Sule Karabulut Gul

- **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 Khosravi, Babak Salimi, Ian Adcock

- **A novel serum biomarker of type XXVIII collagen turnover is elevated in lung cancer but not in COPD**
  Annika Hummersgaard Hansen (Herlev, Denmark), Jennie Marie Bülow Sand, Diana Julie Leeming, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Alexander Lynghe Reese-Petersen, Federica Genovese

- **Evaluation of serum levels of Sirtuin-1 in lung cancer patients**
  Hassan Ghobadi-Marallu (Ardabil, Islamic Republic of Iran), Saeid Hosseininia, Aslan Ameli, Farhad Pourfarz, Mohammad Reza Aslani

- **Type XIX collagen quantified in serum targeting the anti-tumorigenic NC1 domain is elevated in early and late stage lung carcinoma patients and COPD**
  Diana Julie Leeming (Herlev, Denmark), Jeppe Thorlacius-Usssing, Jennie M.B. Sand, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Nicholas Villumsen

- **Role of complement activation product C4d as a predictor biomarker in lung cancer diagnosis: case control study**
  Luci Suliman (Mansoura, Egypt), Dina Abo Elkhair, Amr Moawad, Heba Shehawy

- **Response to Immunotherapy in non-small cell lung cancer: the effect of weight**
  Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Adelaide Alves, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso

- **Relationship between blood monocyte subsets with activation markers and macrophages in non-small cell lung cancer**
  Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Małgorzata Polubiec-Kownacka, Piotr Rzepecki, Joanna Domagała-Kulawik

- **Prognostic value of haematological markers such as neutrophil-lymphocyte ratio (NLR) and platelet-lymphocyte ratio (PLR) in small cell lung cancer.**
  Mario Aparicio Vicente (Murcia, Spain), Eduardo García Pachón, Sheyla Yolany Ruiz Martinez, Laura Fernández Mula

- **Prognostic value of neutrophil to lymphocyte ratio in small cell lung cancer**
  Hager Kchouk (Tunis, Tunisia), Hajer Racil, Sonia Habibech, Sarra Maazaoui, Aida Ayadi, Naouel Chaouch

- **Short-term efficacy of advanced NSCLC patients receiving anlotinib hydrochloride as the first and second-line treatment**
  Ning Chang (Xi’an, China), Yong Zhang, Jian Zhang

- **Our experience with crizotinib in the treatment of non-small cell lung cancer**
  Nimet Aksel (Izmir, Turkey), Mine Gayaf, Gulsum Ari, Murat Akyol

- **Clinical efficacy of 1st line EGFR-TKIs for NSCLC harbouring EGFR mutation with high PD-L1 expression: A single-centered retrospective study**
  Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Osamu Hataji, Kazuki Furuhashi, Yuta Suzuki, Tadashi Sakaguchi, Kentaro Ito, Kentaro Fujiwara, Yoichi Nishii, Osamu Taguchi, Esteban Cesar Gabazza

- **Neurological abnormalities and syphilitic serologic variation with nivolumab: a case of neurosyphilis?**
  Marion FERREIRA (LA RICHE, France), Frédéric Bastides, Eric Pichon, Fanny Lisée, Sylvain Marchand-Adam, Thomas Flament

- **Compression therapy using surgical gloves and elastic stockings to prevent chemotherapy induced peripheral neuropathy (CIPN) in advanced non-small cell lung cancer.**
  Yoko Kida (Kobe, Japan), Rikiya Kouketsu, Toshiyasu Sakurai, Yusuke Inui, Tasuku Matsuoka, Kimihide Tada
Synchronous multiple primary lung cancers manifesting as multiple ground-glass nodules define a special clinical subtype
Wenxin Luo (, China), Wenmin Li

Association between young age and genomic alterations in never-smoker patients with non-small cell lung cancer
Wenxin Luo (, China), Weimin Li

Unique clinicopathological characteristics and favorable prognosis of young patients with non-small cell lung cancer
Wenxin Luo (, China), Weimin Li

Survival after intrapleural catheter (IPC) insertion for malignant pleural effusion (MPE): a retrospective audit of prognostic scoring tools in patients with MPE treated with an IPC in a district general hospital.
Erlanur Rahman Shuvo (COLCHESTER, United Kingdom), Frederick Jarvis, Rachel Lee, Lisa Wright, Rekha Badiger, Peter Hawkins

Tunneled indwelling pleural catheters inserted post thoracoscopy
Philip Evans (Llantrisant, United Kingdom), Emma Shiel, Alina Ionescu

Pre-congress content 00:00 - 23:59

Session

E-poster session: Biological mechanisms of lung cancer

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Sam Janes (London, United Kingdom), Chair to be confirmed

Correlation of programmed death-ligand 1(PD-L 1) expression in lung cancer between endobronchial ultrasound-guided tranbronchial needle aspiration(EBUS-TBNA) samples and histological specimens.
Virginia Guevara Velazquez (Salamanca, Spain), Rosa Cordovilla Pérez, Carmen Parra, Marta Rodriguez González, Lorena Bellido, Ruth García García, Marco López Zubizarreta, Soraya Jodra Sánchez, Miguel Ángel Hernández Mezquita

KPNB1-mediated PD-L1 nuclear translocation promotes non-small cell lung cancer cell proliferation via the Gas6/MerTK signalling pathway
Wenwen Du (, China), Jianjie Zhu, Yuanyuan Zeng, Yang Zhang, Zeyi Liu, Jian-An Huang

NEUROD1 is highly expressed in extensive disease small cell lung cancer by promoting migration.
Kentaro Tanaka (Fukuoka, Japan), Yuki Ikematsu, Kayo Ijichi, Yasuto Yonemisha, Hiroyuki Inoue, Tetsuzo Tagawa, Yoichi Nakanishi, Isamu Okamoto

Alpha1-antitrypsin inhibits staurosporine-induced apoptosis of NSCLC cells
Sabine Wrenger (Hanover, Germany), Natalie Schwarz, Srinu Tumpara, Evrim Ercetin, Tobias Welte, Sabina Janciauskiene

Genetic polymorphisms of renin-angiotensin system and angiogenic factors in NSCLC progression: discovery and validation studies
Maria Joana Pereira Catarata (Porto, Portugal), Ricardo Ribeiro, Alice Pégo, Carlos Robalo Cordeiro, Maria José Oliveira, Rui Medeiros, Michael Thomas, Michael Meister, Thomas Muley

ASCL1 suppress ZFP36L1 expression by regulating miR124-3p expression in lung adenocarcinoma
Takayoshi Enokido (Tokyo, Japan), Naoya Miyashita, Masafumi Horie, Akira Saito, Takahide Nagase

The Role Of TGF-ß in Lung Cancer Development in COPD Patients
Hatice Çelik Tuğlu (ISPARTA, Turkey), Önder Özturk, Pınar Aslan Koşar, Ahmet Akkaya

Causal RNA signatures in lung adenocarcinoma
Georgia Giotopoulou (Munich, Germany), Mario Pepe, Sabine Behrend, Giannoula Ntiariarda, 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 (Taichuung, Taiwan), Yao-Ling Lee

SNP Rs11614913 in miR-196a is a risk factor for non-small cell lung cancer in Iranians
Neda K. Dezfuli (Tehran, Islamic Republic of Iran), Shamila D. Alipour, Sharareh Seyfi, Neda Dalil Roofchayee, Ian M. Adcock, Esmaeil Mortaz

The upregulation of Osteopontin mediates acquired resistance to EGFR-TKI in NSCLC through Integrin/FAK signaling
Yulong Fu (, China), Yang Zhang, Zeyi Liu, Jian-An Huang
Influence of smoking on gene expression in lung adenocarcinoma
Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalo Claros Diaz, Rocío Bautista Moreno

Cocultured brown or white adipocytes can reduce efficacy of targeted therapy in lung cancer cells
Armin Frille (Leipzig, Germany), Hartmut Kuhn, Claudia Hänel, Thomas Ebert, Hans-Jürgen Seyfarth, Hubert Wirtz

Evaluate soluble PD-L1 in plasma in advanced stage non-small cell lung cancer patients
Nhung Pham, 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

Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Małgorzata Polubiec-Kownacka, Piotr Rzepecki, Joanna Domagala-Kulawik

Neprilysin functional genetic polymorphism in NSCLC progression without PD-L1 expression
Maria Joana Pereira Catarata (Porto, Portugal), Ricardo Ribeiro, Maria José Oliveira, Michael Thomas, Michael Meister, Thomas Muley

Lung Microbiota and Streptococcal enrichment in Central Lung Cancer
Jose Javier Vengoechea (Zaragoza, Spain), Manuel Ponce-Alonso, Ana Lucía Figueredo, Elisa Mincholé, Rosa Del Campo, Salvador Bello

Lung Microbiome in Lung Cancer
Jose Javier Vengoechea (Zaragoza, Spain), Manuel Ponce-Alonso, Ana Lucía Figueredo, Elisa Mincholé, Rosa Del Campo, Salvador Bello

Pre-congress content

E-poster session: Lower respiratory tract infections in clinical practice

Disease(s) : Airway diseases, Respiratory critical care
Method(s) : General respiratory patient care, Respiratory intensive care, Epidemiology, Public health, Imaging, Pulmonary function testing, Cell and molecular biology
Chairs : Chair to be confirmed

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.

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 Fernández, Julia Herrero Huertas, Amaia Artaraz Ereño, Noelia Carrión Collado, Estrella Fernández Fabrellas

Are carbapenems a better antibiotic than others for treat ICU-AP? A post-hoc analysis of a prospective cohort.
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Pier Luigi Di Giannatale, Stefano Nogas, Albert Gabarrus, Miquel Ferrer, Antoni Torres

An RDW-based clinical model predicts long-term survival in patients hospitalized with community acquired pneumonia (CAP): a derivation and validation multicentric study
Jacopo Davide Gianello (Busca, Italy), Renzo Melchio, 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 Sogtiu, 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 Yarovsky
Respiratory diseases in HIV-infected patients in Novokuznetsk, Russia.
Irina Viktorova (Novokuznetsk (Kemerovo), Russian Federation), Vera Zmína, Inna Dadyka, Alexandra Galchin

Relationship between pectoralis muscle mass on chest CT and in-hospital death among patients with pneumonia
Ryohsuke Yokosuka (Tokyo, Japan), Ryosuke Imai, Syosei Ro, Manabu Murakami, Ryosuke Tugitomi, Kohei Okafuji, Atsushi Kitamura, Yutaka Tomishima, Jínta Toráhiko, Naoki Nishimura, Tomohide Tamura

Assessment of the characteristics of community-acquired pneumonia in patients with chronic obstructive pulmonary disease
Fatma Chermiti Ben Abdallah (Tunis, Tunisia), Nidhal Belloumi, Hana Mrassi, Imene Bachouche, 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?
Chirine Moussa (Ezahra, Tunisia), Alia Ezzaouia, 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 Sbila, Francisco Sanz, Giovanni Sotgiu, Antonio Anzueto, Katerina Dimakou, Miras Medenica, Roberta Petrino, Ewoudt Van De Garde, Marcos I Restrepo

Risk Factors for Multidrug-resistant Bacteria in a Respiratory Intensive Care Unit
Marcos Oliveira (Aguada de Cima, Portugal), Carlos Lopes, Elsa Fragoso, Inês Claro, Catarina Martins, Pedro Falcão, Carla Mimoso, Pilar Azevedo

Good Practices for Prevention and Infection Control in Non-Invasive Ventilation on Hospital environment: knowledge and needs not covered among Healthcare professionals
Cátia Caneiras (Lisboa, Portugal), Silvia Saldanha, Iolanda Mota, Cátia Caneiras

Pre-congress content
00:00 - 23:59
E-poster session: Epidemiology of paediatric respiratory diseases

Bacteriological profile of bronchoalveolar lavage in children at a university hospital in Brazil
Letícia Dias (Niterói, Brazil), Saulo Tinoco, Ludmila Santos, Paula Soares

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, Letícia Oliveira Dias, Robson De Alvarenga Facina, Selma Maria De Azevedo Sias
Morbi mortality of pulmonary hydatid cyst in children
Rime Essid (Tunis, Tunisia), Imen Bouassida, Amina Abdelkbir, Hazem Zribi, Sarra Maazaoui, Yoldez Houcine, Sonia Ouerghi, Adel Merghli

Marked Variability Observed in Inpatient Management of Bronchiolitis in a tertiarycenter. Can we do better?
Elpis Hatziagorou (Thessaloniki, Greece), Syrmo Styliani Kyrvasili, Maria Parisi, Fotios Kirvassilis, John Tsanakas

The spontaneous pneumothorax in children : about 30 cases
amina Abdelkbir (ben arous, Tunisia), Imen Bouassida, Sarra Zairi, Hazem Zribi, Amani Ben Mansour, Aida Ayadi, Amira Dridi, Adel Marghli

The role of genetics in diagnosing primary ciliary dyskinesia (PCD) in pediatric patients in Gothenburg, Sweden.
Christina Kavouridou (Brämhult, Sweden), Karsten Kötz

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, Mariana 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 Ardura-Garcia, Maria Christina Mallet, Juerg Barben, Carmen Casaula, Karin Hoyler, Anja Jochmann, Alexander Moeller, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Myrofora Goutaki, Claudia E Kuehni

Is telephone monitoring as effective as home visit monitoring for technology dependent children?
Fotios Kirvassilis (Oraiokastro, Greece), Elisavet-Anna Chrysochoou, Elpis Hatziagorou, 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 Bourke, Craig Mcbride, Ian Brent Masters

Lipoid pneumonia in infants: treatment with multiple bronchoalveolar lavages
Paula Serrano Soares (Niterói, Brazil), Ludmila Pereira Barbosa Dos Santos, Leticia Oliveira Dias, Robson De Alvarenga Facina, Selma Maria De Azevedo Sias

Pre-congress content

Session 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

Safety and risk factors for the morbidity and mortality of pneumonectomies: a retrospective 10-year study in a single institution
Joana Cristina Ferreira Rei (Porto, Portugal), Susana Lareiro, Patricia Castro, Pedro Fernandes, Miguel Guerra, Luis Vouga, José Miranda
Reconstructive surgery for bronchial fistulas after resections of the lung.
Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shukhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimiy

Bronchial stump insufficiency after pneumonectomy.
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

Nebulised therapy in preventive maintenance of bronchial stump insufficiency after pneumonectomy.
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

Determinants of completion of a home-based rehabilitation program in patients awaiting lung surgery for lung cancer: a prospective observational multicenter study
Héloïse Catho (Nantes, France), Sébastien Guigard, Anne-Claire Toffart, Gil Frey, Pierre-Yves Brichon, Linda Sakhri, Dominique Bertrand, Charles Aguirre, Sandy Gorain, François Arbib, Bernard Wuyam, Jean-Christian Borel

Lung expansion and alternation of low attenuation volume in lobectomized patients.
Masanori Yokoba (Sagamihara (Kanagawa prefecture), Japan), Tsuyoshi Ichikawa, Shinya Harada, Takahiro Ozawa, Seiichiro Kusuhara, Tomoya Fukui, Satoshi Igawa, Hisashi Mitsufuji, Masaru Kubota, Jiichiro Sasaki, Katsuhiko Naoki, Yukitoshi Sato, Masaru Katagiri

Use of polyvinyl alcohol sponge and cyanoacrylate glue in the treatment of bronchopleural fistula.
Giovanni Galluccio (Roma, Italy), Gabriele Lucantoni, Sofia Romani, Raffaele Dello Iacono, Sandro Batzella

Surgical treatment of primary chest wall sarcomas: experiences in 19 cases
mahdi Abdennadher (Ariana, Tunisia), Aymen Ben Ayed, Sarra Zairi, Hazem Zribi, Imen Bouassida, Mouna Mlika, Imen Sahnoun, Sonia Ouerghi, Adel Marghli

Intraoperative ventilation settings affect intraoperative fluid and vasopressor use in patients undergoing esophagectomy
Margaretha van der Woude (Heerlen, Netherlands), Robert Slappendel, Valerie Van Meegen, Nina Laeven, Pascal Thomas, Laura Bormans, Peter Spronk, Ary Serpa Neto, Marcus Schulz

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

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 Hernandez-Ramírez

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

Investigation of bioresorbable porous implants based on polylactide and polycaprolactone

Ruslan Tarasov (Moscow, Russian Federation), Elena Krasnikova, Vilayat Aliev, Georgiy Chitorelidze, Mamed Bagirov

Lung volume reduction surgery - an underutilised treatment?
Sayed Alderazi (Birmingham (West Midlands), United Kingdom), Simon Gompertz, Mohammed Ziaullah Khan, Anita Sullivan

Pre-congress content

Session 00:00 - 23:59

E-poster session: Occupational lung diseases

Disease(s): Airway diseases, Interstitial lung diseases

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

Chairs: Maritta S. Jaakkola (Oulu, Finland), Mª Jesus Cruz Carmona (Barcelona, Spain)

Asthma-COPD overlap prevalence among employed adults, United States, 2014–2018
Jacek Mazurek (Morgantown, United States of America), Katelynn Dodd, Girija Syamlal
**Occupation and subcategories of asthma: A population-based incident case-control study**
Maritaa S. Jaakkola (Oulu, Finland), Taina K. Lajunen, Behzad Heibati, Jouni J.K. Jaakkola

**OCCUPATIONAL EXPOSURES AND INCIDENCE OF ASTHMA OVER TWO DECADES IN THE ECRHS**
Sheikh Alif (Reservoir, Australia), Geza Benke, Hans Kromhout, Manolis Kogevinas, Deebie Jarvis, Nicole Le Moual, Vivi Schlüßlen, Kjell Torén, Dan Norbäck, Theodor Lytras, Dennis Nowak, Simona Villani, Mathias Holm, Amar Mehta, Giuseppe Verlato, Angelo D’Errico, Johanna Feary, Per Beka, Trude Dueneik Skorge, Torger Storaas, Anna Dahlman-Hoglund, Oistein Svanes, Johan Hellgren, David Miedinger, Silvia Fasical, Torben Sigsgaard, Paul Blanc, Jan-Paul Zock

**Maternal preconception exposure to cleaning agents and disinfectants and offspring asthma**
Gro Tjalvin (Utne, Norway), Jannicke Igland, Bryndís Benediktsdóttir, Shyamali Dharmage, Bertil Forsberg, Mathias Holm, Christe Janson, Nils Oskar Jógi, Ane Johannessen, Andrei Malinovschi, Kathrine Pape, Francisco Gomez Real, Torben Sigsgaard, Kjell Torén, Hilde Kristin Vindenes, Jan-Paul Zock, Vivi Schlüßen, Ceciłe Svanes

**Consequences of asthma on occupational and socio-economic characteristics in the Constances cohort**
Provost dorothée (Bordeaux, France), Delmas Marie-Christine, Cheseune Julie, Chérié-Challine Laurence, Golberg Marcel, Raherison Chantal, Iwatsubo Yuriko

**Higher dyspnea score predicts antibiotic use in World Trade Center-exposed firefighters**
Barbara Putman (Brooklyn, United States of America), Lies Lahousse, Rachel Zeig-Owens, David Prezant, Michael Weiden

**Airborne occupational exposures and the incidence of airway obstruction in the Lifelines Cohort Study**
Md Omar Faruque ( Groningen (GR), Netherlands), Judith M Vonk, Ute Bültmann, H Marike Boezen

**Altered lung mechanics after coal mine fire smoke exposure in adults**
Nicolette Holt (Mornington (VIC), Australia), Caroline Gao, Brigitte Borg, Kris Nilsen, David Brown, Jonathan Broder, Jillian Ikin, Annie Makar, Thomas Mc Crabb, Michael Abramson

**Occupational risk factors for sarcoidosis in a multicenter case-control study**
Denis Vinnikov (Almaty, Kazakhstan), Leonid Strizhakov, Tatsyana Rybina, Sergey Babanov, Vadim Smirnov, Siarhei Makhnach, Ina Hinko, Šiarhei Vasilieuski, Michael Brovko, Liudmila Savich, Aliaksandra Rybina, Irina Mukatova, Marina Lebedeva

**Lifetime occupational history and chronic obstructive pulmonary disease in a population-based study**
Zhangir Tulekov (Almaty, Kazakhstan), Aizhan Raushanova, Aizhan Kyzayeva, Zhanna Romanova, Denis Vinnikov

**Occupational exposure and new onset chronic bronchitis in a general population sample from Telemark County, Norway.**
Anne Kristin Møller Fell (Skien, Norway), Nikola Zivadinovic, Geir Klepaker, Martin Veel Svendsen, Regine Abrahamsen, Johny Kongerud, Paul D. Blanc, Kjell Torén

**Can persulfates cause hypersensitivity pneumonitis? A report of specific inhalation challenge test in 42 hairdressers**
Jens-Tore Granslo (Bergen, Norway), Jorunn Kirkeleit, Stein Håkon Låstad Lygre, William Horsnell, Thomas Blix Grydeland, Torger Storaas, Alexander Reyes-Lingjerde, Tor B Aasen, Ceciłe Svanes

**Occupational exposure to ceramic fibers and respiratory health among insulators**
Subhabrata Moitra ( Edmonton, Canada), Ali Farshchi Tabrizi, Kawtar Idrissi Machichi, Samineh Kamravaei, Noushin Mianashhti, Linda Henderson, Fadi Khadour, Muhammad Naseem, Lyle Melenka, Paige Lacy

**Non tuberculous mycobacteria infections in patients with silicosis**
shimon izhakian ( Petach Tikva, Israel), Oleg Gorelik, Mordechai Kramer

**Lung transplantation in silicosis, still rare**
Thales Ishizaki (São Paulo (SP), Brazil), Philippe Colares, Yuri Parente, Ana Vasconcelos, Rafael Futoshi Mizutani, André Costa, Ricardo Teixeira, Silvia Campos, Marcos Samano, José Afonso Jr, Mário Terra-Filho, Ubiratan De Paula Santos

**Follow-up of workers with silicosis related to quartz conglomerates**
Gabriella Guarnieri (Padova (PD), Italy), Leonardo Bianchi, Filippo Liviero, Paola Mason, Gianluca De Marchi, Andrea Martinelli, Mariella Carrieri, Piero Maestrelli

**Silicosis : Role of Endobronchial Ultrasound and Transbronchial Needle Aspiration**
Vorawut Thanthitaweewat (Bangkok, Thailand), Nophol Leelayuwanakul, Thitiwat Sriprasart

**Pre-congress content**

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

E-poster session: Occupational and environmental causes of respiratory disease
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

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

Diesel exhaust particles induction of allergic asthma to low doses of soybean
Miquel de Homdedeu Cortes (Barcelona, Spain), María Jesús Cruz, Silvia Sánchez Diez, Susana Gómez, Iñigo Ojanguren, Christian Romero, Xavier Muñoz

Ozone and COPD: a systematic map of epidemiological and experimental studies
Tianyu Zhao (Munich, Germany), Iana Markevych, Christian Janßen, Dennis Nowak, Nadine Steckling-Muschack, Joachim Heinrich

Pulmonary toxicity induced by electric charged soot particles in mice
Hsiao-Chi Chuang (Cardiff, United Kingdom), Ta-Chih Hsiao, Tzu-Ting Yang, Chii-Hong Lee

A comparison of the cytotoxicity of different coals in lung epithelial cells
Anna Yeung (Sydney (NSW), Australia), Yingying Sun, Andrew Kinsela, Alen Faiz, Mehra Haghı, Brian Oliver, David Waite

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

Risk occupations of irritant-induced occupational asthma.
Irmeli Lindström (Helsinki, Finland), Jussi Lantto, Satu Soini, Katri Suuronen, Hille Suojalehto, Kirsu Karvala

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

CHARACTERISTICS OF PATIENTS EVALUATED IN SPECIALIZED POST-ASBESTOS EXPOSURE OUTPATIENT CLINIC
Carolina España Dominguez (Cádiz, Spain), Maria Morales González, Antonio Hidalgo Molina, Isabel Muñoz Ramírez, Alfonso Marin Andreu, Fernando Romero Valero, Juan Antonio Córdoba Doña, Antonio León Jiménez

Respiratory symptoms and induced sputum abnormalities in fuel pump workers.
José António Baddini Martinez (Ribeirao Preto (SP), Brazil), Tiago Henrique Silva, Ada Gastaldi, Marcel Koenigkam Santos, Bruno Spinosa Di Martinis

Interstitial Lung Disease (ILD) in aluminium welders
Johanna Feary (London, United Kingdom), Helen Parfrey, Sherwood Burge, Andrew G Nicholson, Anand Devaraj, Paul Cullinan

Interactive learning of occupational lung disease in medical school.
Anna Rask-Andersen (Uppsala, Sweden), Marta A. Kisiel

Association of selected risk factors which affect Chronic Obstructive Pulmonary Disease (COPD) among patients in the National Hospital for Respiratory Diseases (NHRD), Sri Lanka
Piyumi Weerawardhana (Colombo, Sri Lanka), Amitha Madushani, Shanaka Jayasinghe, Tharaka Sirawardhana, Kaushalya Kumari, Chathurika Wirasagoda, Varuna Navaratne

Occupational asthma and work-exacerbated asthma: do they differ in terms of endotype at diagnosis?
Paola Mason (Padova (PD), Italy), Dileetra Arcidiacono, Aurora Ceccato, Gabriella Guarnieri, Piero Maestrelli, Filippo Liviero, Anna Chiara Frigo

Occupational exposure assessment to chromium using a job-exposure matrix based approach based on biomonitoring data
Zehra Nur Toreyin (Izmir, Turkey), Lode Godderis
**Specific inhalation challenge test results in occupational and non-occupational asthma patients: Is monitoring peak expiratory flow rate sufficient for diagnosis?**
Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Gülőn Sari

**Prevalence and correlates of asthma in Indian children and their parents: data from Global asthma Network**
Sheetu Singh (Jaipur (Rajasthan), India), Sundee Salvi, Shally Awasthi, Nishtha Singh, Monica S Barne, Meenu Singh, Sabir Mohmad, Sanjay K Kochar, Sushil K Kabra, Sanjeev Sinha, Alok G Ghoshal, Tu Sukumaran, Mahesh Pa, Daya K Mangal, Vireendra Singh

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

**E-poster session: Asthma inhalers: devices and adherence studies**

**Disease(s):** Airway diseases, Respiratory critical care

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

**Chairs:** Federico Lavorini (Firenze (FI), Italy), Thomas Bahmer (Kiel, Germany)

#### Late Breaking Abstract - Dry Powder Inhaler Preference in asthma patients. Results of the DPI PREFER Study
Diana Lucila Ramos Apolaya (Sevilla, Spain), Maria A. Romero Falcón, Juan F Medina Gallardo, Ana Gómez-Bastero Fernández, Francisco Álvarez Gutierrez, Julio Delgado Romero, Carlos Campos Sien, Paula Rytlä

#### Inhaler technique training of community pharmacists and common errors
Bransilava Milenković (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, Henderik Willem Frijlink, Floris Grasmeijer

#### Improvement of QVAR delivery through a better sorting of drug particles: development of an innovative and easy-to-use spacer
Bastien Demouveaux (Valognes, France), Alison Vanlaeys, Thierry Porée

#### Long-term clinical effect of inhalation method with lowered tongue.
Rieko Kondo (Nagoya, Japan), Takahiko Horiguchi, Yuji Tohda

#### How to assess inhalation technique in patients with asthma and COPD - comparison of three different methods
Marta Miszczuk (Warszawa, Poland), Izbela Domagała, Marta Dąbrowska, Marta Maskey-Warzęchowska, Rafał Krenke

#### Patient centered development of a new valved holding chamber (VHC) designed specifically for on-the-go use
Jason Suggett (London (ON), Canada), Alison Ellery

#### Efficacy and safety of new formulation of fluticasone propionate/salmeterol delivered via a HFA pMDI inhaler in patients with asthma
Maciej Kupczyk (Stockholm, Sweden), Paweł Majak, Piotr Kuna, Beata Asankowicz-Bargiel, Eliza Baranska, Rafal Dobek, Sławomir Garbicz, Joanna Jerzynska, Anna Latos, Wojciech Machowiak, Bernadetta Majorek-Olechowska, Anna Olech-Cudzik, Iwona Poziomkowska-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 Bilbech (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 Krijff, Frans H C De Jongh
Orally inhaled drug particle deposition efficiency in subjects with two-level laryngotracheal stenosis
Dennis Frank-Ito (Durham, NC, United States of America)

Assessment of inhalation technique in patients with bronchial asthma and chronic obstructive pulmonary disease
Natalia Trushenko (Moscow, Russian Federation), Anna Stoliarevichh, Boris Andryukov, Sergey Avdeev

Development of image processing-based smartphone App (Application Software) for self-management of inhaled medicines for patients with asthma or COPD
Yasuhiro Setoguchi (Tokyo, Japan), Yasunari Miyazaki, Yoshiaki Nakayama, Len Matsuyama, Mari Ando, Seiji Matsuba, Masaki Uchida

Devise use errors among patients with asthma and COPD - A real-life study
Andriana Papaioannou (Vrilissia (Athens), Greece), Konstantinos Bartzikas, Georgios Hillas, Evangelia Fouka, Aikaterini Dimakou, Maria Kallieri, Stamatoula Tsikrika, Georgia Papadaki, Evgenia Papanathanasiou, Anastasia Papaporyriou, Vasiliki Apollonatou, Galateia Verykokou, Myrto Mplizou, Despina Papakosta, Effrosyni Manali, Spyridon Papiris, Stelios Loukides

Pre-congress content

Session 00:00 - 23:59

E-poster session: Lung function diagnostics

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

Chairs: Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

In-vitro and in-vivo validation of Cosmed Q-box system
Mart N. van der Plas (Monster, Netherlands), Frans H.C. De Jongh

The within session repeatability of body plethysmography parameters in patients with chronic pulmonary diseases
Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova, Elena Shergina, Elena Krasnikova, Olga Gordeeva, Natalya Karpina

Influence in outcome of the bodyplethysmography measurement performed with or without supporting cheeks and jaw.
Justine Wadners (Leusden, Netherlands), Jellien Makonga

Estimation of lung functional residual capacity by the multiple-breath washout test versus bodyplethysmography in healthy subjects
Galina Nekludova (Moscow, Russian Federation), Alexander Cherniak

Impulse oscillometry in the diagnosis of bronchoconstriction induced by acetylcholine inhalation
Elena Kokorina (Vsevolozhsk, Russian Federation), Larisa Kiryukhina, Nina Denisova, Natalia Nefedova, Sofya Kovaleva

Expiratory and inspiratory vital capacities and the ventilatory pattern severity
Raquel Barros (Lisboa, Portugal), Liliana Raposo, Nuno Moreira, Margarida Rocha, Paula Calaça, Ana Sofia Oliveira, Cristina Bábara

Comparison of peak heart rate achievable using arm ergometry versus leg ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr

Comparison of oxygen uptake obtained using arm and leg cycle ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr

Comparison of anaerobic threshold obtained using arm and leg cycle ergometry.
Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr

Community respiratory diagnosis: It’s more than just spirometry
Ross Beech (Bury St Edmunds, United Kingdom), Luke Youngs, Matthew Rutter, Karl Sylvester

Is there an interest in modifying spirometric reference equations?
Nozha Ben Salah (Tunis, Tunisia), Houda Snen, Hana Blibeche, Donia Belkhiri, Lyne Kaabi, Asma Zaaffouri, Nadia Mehiri, Bechir Louzir

GLI is a better predictor of airway obstruction in young, asymptomatic patients with Marfan syndrome
Abigail Margit Kolonics-Farkas (Budapest, Hungary), Zsuzsanna Kovats, Aniko Bohecs, Balazs Odler, Kalman Benke, Bence Agg, Zoltan Szabolics, Veronika Müller

Bronchodilator reversibility is associated with non-adherence to inhalers in stable asthma patients, without airflow limitation.
Daniel Schuermans (Bruxelles, Belgium), Shane Hanon, Eef Vanderhelst
### Pre-congress content

#### Session 00:00 - 23:59

**E-poster session: From respiratory physiology to clinical practice: exercise and respiratory muscles**

- **Disease(s):** Airway diseases, Sleep and breathing disorders
- **Method(s):** Pulmonary function testing, Physiology, Pulmonary rehabilitation, General respiratory patient care, Epidemiology, Public health
- **Chairs:** Michael Furian (Zürich, Switzerland), Gergely H. Fodor (Szeged, Hungary)

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<td>Actigraphy provides additional patient-centered outcome domains beyond those measured by survey questionnaires in COPD</td>
<td>Mehrdad Arjomandi (San Francisco, United States of America), Melissa Nishihama, Wendy Ching, Lemlem Weldemichael, Siyang Zeng, Warren Gold</td>
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<td>Hayley Lewthwaite (Montreal (QC), Canada), Andrea Benedetti, Michael K Stickland, Jean Bourbeau, Jordan A Guenette, Francois Maltais, Darcy C Marciniuk, J. Alberto Neder, Denis E O'Donnell, Benjamin M Smith, Wan C Tan, Dennis Jensen</td>
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<td>Mathijs Westra (Leeuwarden, Netherlands), Laurien Keulers, Jan Van Der Maten, Kim De Jong</td>
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<td>Marcelina Koćwin (Lódź, Poland), Rocco F. Rinaldo, Elena Parazzini, Simone Luraschi, Silvia Ruggeri, Fausta Alfano, Mirta Cavallini, Pierfrancesco Longo, Piotr Kuna, Fabiano Di Marco, Stefano Centanni</td>
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<td>Improved small airway function by benralizumab in patients with severe eosinophilic asthma</td>
<td>Tanya Badal (Camperdown, Australia), Nicola Reed, Leigh M Seccombe, Alice M Cotte, Cindy Thamrin, Gregory G King, Matthew J Peters, Claude S Farah</td>
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<td>Respiratory impact of a Grand Tour: Insight from professional cycling</td>
<td>Oliver J Price (Leeds (West Yorkshire), United Kingdom), Hayden Allen, Jon Greenwell, James H Hull</td>
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<td>The impact of dyspnea on postural control in healthy subjects</td>
<td>Olivier Van Hove (Bruxelles, Belgium), Vasileios Andrianopoulos, Anna Maria Cebolla, Dimitri Leduc, Véronique Feipel, Gaël Deboeck, Bruno Bonnechère</td>
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<td>The influence of various inspiratory loads on reaction time in healthy subjects</td>
<td>Olivier Van Hove (Bruxelles, Belgium), Vasileios Andrianopoulos, Anna Maria Cebolla, Dimitri Leduc, Véronique Feipel, Gaël Deboeck, Bruno Bonnechère</td>
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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 Vietra, Andrezza A. Viana, Esmivany Lhara Freitas Castro, Andrea Aliverti, Vanessa R Resque

Feasibility, muscle activity, contraction and relaxation proprieties of reverse sniff test in healthy subjects
Guilherme Fregonezi (Rio Grande do Norte, Brazil), Jackson Claudio Lima, Maria Lira, Esmivany Lhara Freitas Castro, Vanessa R Resque

Neural respiratory drive, respiratory mechanics and breathlessness in COPD patients with comorbid heart failure
Caroline Jolley (London, United Kingdom), Luis Estrada, Emily Lau, Manuel Lozano-Garcia, Anna Moore, Peter Cho, Hannah Fletcher, Abel Torres, Gerrard F Rafferty, John Moxham, Raimon Jane

Numerical simulation study of the effects of expiratory tracheal collapse is a two-dimensional (at least) problem
Emeline Fresnel (Bois-Guillaume, France), Jorys Achard, Adrien Kerfourn, François-Xavier Demoulin, Léa Razakamanantsoa, Christian Caillard, Antoine Cuvelier, Maxime Patout

Effect of high-intensity exercise on respiratory and peripheral muscle oxygenation in HF and COPD-HF patients.
Flavia Rossi Caruso (Sao Carlos (SP), Brazil), Cassia Luz Goulart, José Carlos Bonjorno Junior, Adriana Garcia Sanches Araújo, Renata Gonçalves Mendes, Audrey Borghi-Silva

Pre-congress content

E-poster session: Novel insights into exercise training

Effect of exercise training in intracellular cytokine and the relationship with clinical aspects in patients with COPD
Juliana Uzeloto (Anhumas, Brazil), Alessandra Toledo-Arruda, Marjorie Golim, Bruna Silva, Aline Braz, Fabiano Lima, Isis Grigoletto, Ercy Ramos

Effect of high-intensity exercise on respiratory and peripheral muscle oxygenation in HF and COPD-HF patients.
Flavia Rossi Caruso (Sao Carlos (SP), Brazil), Cassia Luz Goulart, José Carlos Bonjorno Junior, Adriana Garcia Sanches Araújo, Renata Gonçalves Mendes, Audrey Borghi-Silva

Addition of functional exercises to conventional training in COPD: satisfaction and adherence
Isis Grigoletto (Pirapozinho, São Paulo, Brazil), Fabiano De Lima, Juliana Souza Uzeloto, Dionei Ramos, Paulo Gomes, Carlos Augusto Camillo, Ercy Ramos

Elastic resistance training in people with COPD: a systematic review and meta-analysis
Fabiano Lima (Presidente Prudente (SP), Brazil), Vinicius Cavalheri, Bruna Silva, Isis Grigoletto, Juliana Uzeloto, Dionei Ramos, Carlos Augusto Camillo, Ercy Ramos

Comparisons of effects of high-flow and nasal cannula oxygen on exercise performance in patients with COPD
Yen-Huey Chen (TaoYuan, Taiwan), Shiao-Lan Cheng, Huang-Pin Wu, Hui-Ling Lin

Influence of resistance training on heart rate variability in the difficult-to-control asthmatic patients.
Ivan Peres Costa (São Paulo, Brazil), Lawrence Patrick Cahalin, Henrique De Oliveira Galli, Priscila Sillis Da Silva, Angela Mendonça, Roberto Stibulov, Luciana Maria Malosá Sampaio

Effects of quadriceps muscle strengthening on muscle endurance, functional capacity, dyspnea and quality of life in older patients with asthma
Elif Develi (istanbul, Turkey), Rasmi Muammer, Yasar Kucukardali
Effectiveness of a home-based pre-habilitation program for lung transplant candidates.
Tania Janaudis-Ferreira (Montreal (QC), Canada), Daniela Massierer, Nicholas Bourgeois, Agnes Rakel, Karina Prevost, Larry Lands, Charles Poirier

The effect of pulmonary rehabilitation before bronchoscopic volume reduction on post-procedure clinical status and follow-up compliance
Esra Pehlivan (Istanbul, Turkey), Demet Turan, Esra Yazar, Arif Balci, Erdogan Cetinkaya

Outcomes in exercise-based interventions in interstitial lung diseases
Ana Luisa Araujo Oliveira (Vila Nova de Famalicao, Portugal), 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?
Linda Deney (Australia), Catherine Granger, Lara Edbrooke

Aerobic and Weightlifting Training Improves Lung Function and Mechanics and Pulmonary and Systemic Immune Response in Overweight Women
( ), Maysa A. R. Brandao-Rangel, Renilson Moraes-Ferreira, Thiago G. Gibson-Alves, Victor H. Souza Palmeira, Helida C. Aquino-Santos, Claudio Ricardo Frison, Rodolfo P. Vieira

Physical Training Improves Lung Function and Mechanics and Pulmonary and Systemic Immune Response in Eutrophic Women
( ), Maysa A. R. Brandao-Rangel, Renilson 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 (Sao Jose Dos Campos (SP), Brazil), Adriano A Da Silva, Daniel S F Magalhaes, Jose C Cogo

Physical function in multimorbid elderly patients undergoing major surgery
Monique Messaggi Sartor (Barcelona, Spain), Ana El Barberan-Garcia, Manuel Lopez-Baamonde, Betina Campero, Barbara Romano-Androni, Pilar Hurtado, Silvia Teres-Belles, Antonio Lopez, Raquel Sebho, Josep Roca, Graciela Martinez-Pallier

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

E-poster session: Multidrug-resistant tuberculosis
Disease(s): Airway diseases
Method(s): General respiratory patient care Epidemiology Cell and molecular biology Public health Respiratory intensive care Imaging Pulmonary function testing Endoscopy and interventional pulmonology
Chairs: Sergey Evgenievich Borisov (Moscow, Russian Federation), Chair to be confirmed

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, Dmtry Klimuk, 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
Alena Skrahina (Minsk region, Belarus), Natalia Yatskevich, Henadz Hurevich, Viacheslav Grankov, Dmtry Klimuk, Varvara Solodovnikova, Dmitriy Viatsushka, Aliaksandr Skrahin, Elmira Gurbanova, Masoud Dara

Line Probe Assay as a preliminary investigation for diagnosing resistant tuberculosis : A Single center experience
Deepak Muthreja (Nagpur (Maharashtra), India), Pratibha Singhil (Mumbai (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke

Incidence of cycloserine induced neurotoxicity in drug resistant TB patients attending a tertiary care hospital.
Pratibha Singhil (Mumbai (Maharashtra), India), Pratibha Singhil, Kupol Saliga, Iram Syed

Adverse effects among MDR/XDR TB patients with viral hepatitis appearing during TB chemotherapy
Edik Vaniev (Moscow, Russian Federation), Anastasia Samoilova, Irina Vasilyeva, Olga Lovacheva, Tatyana Tyulkova

Proteasome Accessory Factor-C (PaF-C) 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, Eduard Karamov, Elena Veselova, Sergey Smerdin, Marina Leichliyader, Anastasia Samoilova, Irina Vasilyeva

Multivariate analysis of the effectiveness of bedaquiline-containing chemotherapy regimens in previously treated XDR TB patients
Nataliya Stavitskaya (Krasnodar, Russian Federation), 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 (Moscow, Russian Federation), 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 Arghir (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/W148-cluster
Alena Gerasimova (St.Petersbourg, Russian Federation), Anna Vyazovaya, Klaudia Levina, Marge Kütt, 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

CARDIAC DYSFUNCTION IN ACTIVE PULMONARY TUBERCULOSIS: DOUBLE TROUBLE!!
Shital Vishnu Patil (Latur (Maharashtra), India), Ganesh Narwade, Gajanan Gondhal

Application of next-generation sequencing to detect MTB resistance to first- and second-line anti-TB drugs
Anna Panova (Moscow, Russian Federation), Anatoliy Vinokurov, Denis Lagutkin, Alexandra Gracheva, Aleksander Nikolaev, Anastasia Samoilova, Irina Vasilyeva

Comparative analysis of M. tuberculosis drug susceptibility tests results in new multidrug-resistant tuberculosis cases and their confirmed contacts.
Konstantin Glebov (Moscow, Russian Federation), Anastasia Russikh, Anastasia Samoilova, Olga Lovacheva, Irina Vasilyeva, Yulia Timukova

Pre-congress content
Session 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: Marije L. Duverman (Groningen, Netherlands), Dimitrios Tournpanakis (Athens, Greece)

Late Breaking Abstract - Non-invasive ventilation for COVID-19 at a North East London NHS Trust: a retrospective analysis
Harish Shankar Kumar (Leeds, United Kingdom), Matt Birch, Charlotte Toms, Claire Calderwood, Adam Ainley

Late Breaking Abstract - Retrospective analysis of CPAP using home HIV machines outwith ICU for COVID-19
Varun Sharma (United Kingdom), Grace Mcdowell, Daniel Rodgers, Elizabeth Routledge, Thomas French, Jill Selfridge, Daghshagini 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 (Cadier en Keer, Netherlands), Bettine A.H. Vosse, Anne Q.R. Visser, Sander C.M. Steyns, Marijke Rutten, Nicolle A.M. Cobben, Geertjan Wesseling

Survival estimates in patients with home non-invasive ventilation
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro
The utility of esophageal pressure measurement in non-invasive ventilation weaning in severe COPD exacerbation
Alexandru Tudor Steriade (Bucuresti, Romania), Mihai Gologanu, Daniela Necula, Nicoleta Sargarovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacea

Onset and clinical predictors of delirium in patients undergoing non-invasive mechanical ventilation for acute respiratory failure - NIVILIUM multicenter trial
Luca Tabbì (Esine (BS), Italy), Roberto Tonelli, Ivana Castaniere, Riccardo Fantini, Sara Sorgentone, Maria Cristina Paonessa, Marianna Sacchi, Antenolla Spacone, Roberto Dongilli, Elisa Boni, Laura Falsini, Viviana Ribuffo, Alessandro Marchioni, Lara Pisani, Stefano Nava, Enrico Clini

High Flow Nasal Therapy (HFNT) in Pediatric patients at the Home
Adel 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, Efaim Sadot, Aviva Fatal, Liora Sagot, Keren Armoni Domany, Israel Amirav

Integrated Respiratory Care for Patients on Prolonged Home mechanical Ventilation: Preliminary Results of the CAI_Vent Program
Margarida Torres Redondo (Matosinhos, Portugal), Daniela Rodrigues, David Araujo, Tiago Pinto, Arnaldo Fernandes, Carol Pinto, Pedro Pinheiro, Manuela Sousa, Antonio Loureiro, Paulo Costa, Teresa Honrado, Miguel Gonçalves

HOW OUR AMYOTROPHIC LATERAL SCLEROSIS PATIENTS DIE
Natalia Pascual Martinez (Cordoba, Spain), Maria Melgar Herrero, Cristina Gómez Rebollo, Elisa Martínez 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 Wijkstra, 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 Schmooor, 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 Dermechelis, 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 Kissell, Bill Hardy, Parul Nisha, Sidney Cannon-Bailey

Adherence to Home Mechanical Ventilation over 10-Years: A Retrospective, Single-Centre Cohort Study
Omar Masoud (London, United Kingdom), Michelle Ramsay, Eui-Sik Suh, Georgios Kaltsakas, Shelley Srivastava, Hina Pattani, Philip Marino, Patrick Murphy, Nicholas Hart, Joerg Steier

Microbiological contamination of humidifiers used for home noninvasive ventilation (NIV)
Maxime Patout (Mont-Saint Aignan, France), Justine Dampierre, Christine Chefson Girault, Andre Giliibert, 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
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 disease

**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 Coiffard, Samira Fard, Jenna Wong, W. Darlene Reid, Laurent Brochard, Simone Piva, Ewan C. Goliher

**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 Hoepfer, 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 Filette

**Cerebral cortex and respiratory muscle perfusion and oxygenation responses between patients failing or succeeding the SBT**
Zafeiris Louvaris (Leuven, Belgium), Marine Van Hollebeke, Philippe Meersseman, Joost Wauters, Alexander Wilmer, Rik Gosselin, Greet Hermsen, Daniel Langer

**Prognostic score of prone positioning to predict outcome in patients with moderate to severe acute respiratory distress syndrome**
Pin-Kuei Fu (Taichang, Taiwan), Po-Hsien Lee

**Oxygen saturation index as a surrogate to oxygenation index in predicting outcomes in ARDS**
Sushmitha Jakka (Visakhapatnam (Andhra Pradesh), India), Sateesh Chandra, Dhruva Chaudhry, Manjuunath B.G, Diksha Tyagi, Athul Thulasi

**Study of relation between weaning failure from mechanical ventilation and cardiac dysfunction in Intensive Care patients.**
Radwa Elhefny (Cairo, Egypt), Sherif Zaki, Osama Monttaz, Rabab Fawzy

**Early gas exchange effect of prone positioning is not associated with intensive care unit survival in moderate to severe acute respiratory distress syndrome**
You-Yi Chen (Yunlin County 6, Taiwan)

**Extracorporeal membrane oxygenation for adults with active malignancy: Is there difference to clinical outcome between hematologic and oncologic?**
Chul Park (Iksan, Jeollabuk-do, Republic of Korea), Eun Taek Jung, Ki Eun Hwang, Jae Wan Jung, Hyun Im, Hak Ryul Kim

**Use of digital auscultation in patients with ARDS: a correlation study with CT imaging**
Angelo Calabrese (ROMA, Italy), Davide Chiumello, Martina Gurgitano, Arianna Ciabattoni, Francesco Lombardi, Giacomo Sgalla, Luca Richeldi

**Go Easy with the Fluids? Increased Mortality in Acute Respiratory Distress Syndrome with Hypervolemia**
Kam S Ho (New York, United States of America), Paaras Kohli, Yasmin Herrera, Archana Pattupara, Joseph Poon, Shabnam NasseriFar, Andre Sotelo, Raymonde Jean

**Electrical stimulation of the expiratory muscles to maintain muscle activity during the acute stages of mechanical ventilation: a pilot RCT**
Anemijn Jonkman (Raalte, Netherlands), Tim Frenzel, Angus Mc Lachlan, Euan Mc Caughey, Jeroen Schouten, Pieter R. Tuinman, Jane Butler, Leo Heunks
### Inadequate assessment of patient-ventilator interaction due to suboptimal diaphragm electrical activity signal filtering
Annemijn Jonkman (Raalte, Netherlands), Lisanne Roesthuis, Esmée De Boer, Heder De Vries, Armand Girbes, Hans Van Der Hoeven, Pieter R. Tuinman, Leo Heunks

### Central venous oxygen saturation as a predictor of failure of weaning from mechanical ventilation
Muhammad Essam Nagy (Portsaid, Egypt), Samiha Ashmawi, Hala Salem

### Using the Rox index for Nasal High Flow therapy in patients with interstitial lung disease and severe acute respiratory failure.
Ana Cysneiros (Lisboa, Portugal), Diana Organista, Daniela Machado, Daniela Rodrigues, Francisca Lopes, Catarina Antunes, Fernanda Paula, Filippe Froes

### Risk factors of reintubation in patients receiving post-extubation nasal high flow therapy
Jo Min Ju (Seoul, Republic of Korea), Yun Jung Huh, Yoomi Yeo, Ji-Yong Moon, Tae-Hyung Kim, Sung Jun Chung, Hyun Lee, Dong Won Park, Sang Heon Kim, Jang Won Sohn, Ho Joo Yoon, Tai Sun Park

### Pre-congress content

#### Session 00:00 - 23:59

**E-poster session: Tuberculosis and society**

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<td>Non-communicable comorbidities of Tuberculosis</td>
<td>General respiratory patient care, Epidemiology, Cell and molecular biology, Public health, Transplantation, Pulmonary function testing</td>
<td>Chair to be confirmed</td>
<td>Layth Al-Salihi (Baghdad, Iraq), Ahmed Mankhi</td>
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<td>Are we ready to treat Tuberculosis in ambulatory care?</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Stanciu Ionut (Constanta, Romania), Pohrib Ionela, Ghita Monica, Dantes Elena</td>
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<td>Knowledge, attitudes and practices of accompaniometry of tuberculosis patients followed in the respiratory department of the Hassan II university hospital</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Hind Serhane (Marrakech, Morocco), Khadija Aitnasser, Fatiha Bounoua, Houda Moubachir</td>
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<td>Screening of the under-served population of Luton for tuberculosis and blood-borne viruses</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Syed Tariq (Luton (Bedfordshire), United Kingdom), Sultan Salimree</td>
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<td>Knowledge, attitudes and perceptions survey regarding tuberculosis in hospitalized patients</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Ionela-Alina Grosu-Creangă (Iasi (Iasi), Romania), Cristina Mihaela Ghiciuc, Ioana Buculei, Irina Mihaela Eșanu, Adriana Sorete Arboere, Elena Cătălina Lupuşoru</td>
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<td>Advance lung function testing: Lung Volumes(TLC) &amp; Diffusing Capacity(DLco) diagnoses substantial pulmonary function impairment in treated Pulmonary Tuberculosis patients</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Dhiyva Roy, Deepa Shankar, Balamugesh Thangakunam</td>
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<td>Tuberculosis spread among different strata of megapolis population, impact of migration</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Evgeny Beliovskiy (Moscow, Russian Federation), Elena Bogorodskaya, Sergey Borisov, Aleksandra Temlyakova, Andrey Ilchenko</td>
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<td>TB &quot;cross-border&quot; - a new challenge in tuberculosis management</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Ioana Munteanu (Bucuresti, Romania), Beatrice Mahler, Dragos Sion, Nicoleta Cioran</td>
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<td>Whole genome sequencing of the highly virulent subtype B0/W148 of the Beijing genotype M.tuberculosis in K harkiv, East Ukraine</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Oleksandr Zinenko, Anton Rohozhyn, Ivan Hrek, Natalia Rudova, Anton Gerilovych, Gerald Fischer, Luke T. Daum, Oleksii Solodiankin</td>
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<td>Determination of the type of acetylation in adult patients with lung tuberculosis</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Ksenia Galkina (Moscow, Russian Federation), Elena Nosova, Maria Krasnova, Anastasia Khakhalina, Alexandra Isakova, Svetlana Safonova</td>
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<tr>
<td>Genotype of M. tuberculosis in tuberculosis patients registered in megapolis</td>
<td>General respiratory patient care</td>
<td>Chair to be confirmed</td>
<td>Aleksandra Temlyakova (Moscow, Russian Federation), Maria Krasnova, Anastasia Khakhalina, Svetlana Safonova, Evgeniy Beliovskiy</td>
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### DETECTION OF NONTUBERCULOSIS MYCOBACTERIA IN NATIONAL REFERENCE LABORATORY (NRL) OF UZBEKISTAN
Sanjar Sultanov (Tashkent, Uzbekistan), Nargiza Parpieva, Kazim Mukhamedov, Mukhhabat Djurabaeva, Zuhriiddin 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 Akdur

### Comparative study on the diagnostic value of a modern gamma-interferon test applied in blood and bronchoalveolar lavage in children suspected of tuberculosis - final results
Nataliya Gabrovska (Sofia, Bulgaria), Svetlana Velizarova, Albena Spasova, Dimitar Kostadinov, Hristo Shivachev, Yanko Pahnev, Zdravka Antonova

### Results of tuberculosis contact tracing in a low incidence area using a Sharepoint database tool.
Rasmus Rude Laub (Virum, Denmark), Christian Niels Meyer

### Study of states of leukocytes in blood of pulmonary tuberculosis patients with different efficacy of treatment.
Olga Hovardovska (Kharkiv, Ukraine), Olga Shevchenko, 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

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### Pre-congress content

#### Session 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:** Esther Jeritza Nossent (Amsterdam, Netherlands), Chair to be confirmed

**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**
Robert F. Roscigno (Morrisville, United States of America), Marc Humbert, Toby Vaughn, Werner Seeger, Laurent Savale

**Inspiratory flow patterns with dry powder inhalers (DPIs) of low and medium flow resistance in subjects with pulmonary arterial hypertension (PAH)**
Mariana Faria Urbina (Chestnut Hill, 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/OrPHeUS real-world data**
Lana Melendres-Groves (Albuquerque, United States of America), Richard Channick, Kelly Chin, Vallerie V. Mclaughlin, Megan Flynn, Rose Ong, Graham Wetherill, Nick H. Kim

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

**Selexipag further titration in real-world practice: SPHERE registry**
Sandeep Sahay (Houston, United States of America), Karim El-Kersh, Nick H Kim, Anna R Hemnes, Murali M Chakinala, Kristin B Highland, Kelly M Chin, Vallerie Mclaughlin, Carol Zhao, Veena Narayan, Harrison W Farber
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, Bhashkar Mukerjee, Carl Harries, Aleksander Kempny, Philip Marino, Colin Church, Martin Johnson, Robin Condliffe, 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
ninacugnin (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), 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 Bertoletti (Saint Etienne Cedex, France), Ludovic Lafaie, Cécile Duvillard, Elodie De Magalhaers, Souad Bezzeghoud, Sandrine Accessat, Paul-Enoît Poble, Pierre-Benoît Bonnefoy, Claire Tulane, Thomas Celarier

Psychological disorders in patients with pulmonary arterial hypertension (Data from the PEPPAH-Study)
Tanja Melfendorf (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 (Jirny, Czech Republic), Vladimír Dytrich, 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 Chamorro

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

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

E-poster session: Experimental approaches to pulmonary hypertension
Disease(s): Pulmonary vascular diseases Respiratory critical care
Method(s): Epidemiology Cell and molecular biology Physiology
Chairs: Frances S. De Man (Amsterdam, Netherlands)

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

CFTR involvement in the pathogenesis of pulmonary arterial hypertension
Fabrice Antigny (Le Plessis-Robinson, 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, Clee Pan

Comparison of Treprostinol Palmitil Inhalation Suspension (TPIS) or Oral Sildenafil (Sild) in a Sugen/Hypoxia Rat Model of PAH.
Michel Corboz (Bridgewater, United States of America), Sandra Gagnon, C Brodeur, Charles E Laurent, Adam J Plaunt, Vladimir Malinin, Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins, Richard W Chapman

Additive protective effects of sacubitril/valsartan and bosentan on vascular remodeling in experimental pulmonary hypertension
Christophe Guignabert (Paris, France), Marie-Camille Chaunais, Mohamed Reda Amar Djessa, Raphaël Thuillet, Amélie Cumont, Ly Tu, Guillaume Hebert, Pauline Gaignard, Alice Huertas, Laurent Savale, Marc Humbert

Zamicastat decreases cardiac arrhythmias in a rat model of pulmonary arterial hypertension
Nuno Filipe Pires (Povoa de Varzim, Portugal), Bruno Igreja, Luis Magalhaes, Maria-Joao Bonifacio, Eric Chevalier, Patricio Soares-Da-Silva

Relationship between Galectin-3 and mineralocorticoid receptor in pulmonary hypertension
Carl Tanba (Boston, United States of America), Guanming Qi, Rod Warburton, Krishna Penumatsa, Deniz Toksoz, Jamie Wilson, Harrison Farber, Nicholas Hill, Ioana Preston

Mitophagy plays an important role in hypoxia-induced pulmonary artery smooth muscle cell proliferation
Shujin Guo (Chengdu (Sichuan), China), Qian Zuo, Yutian Zhou, Xiaohui Li

No evidence of desensitization to repeat dosing with treprostinil palmitil inhalation suspension (TPIS) for 32-consecutive days in hypoxia-challenged telemetered rats
Richard W. Chapman (Bridgewater, United States of America), Michel Corboz, Sandra Gagnon, C Brodeur, Adam J Plaunt, Vladimir S Malinin, Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins

Early atorvastatin administration suppresses the oxygen-activating ability of rat neutrophils during monocrotalin-induced pulmonary arterial hypertension (PAH).
Igor Adzerikho (, Russian Federation), Volha Yatsevich, Tatyana Vladimirskaja, Galina Semenkova

Basement membrane, a specialized extracellular matrix, shapes endothelial function in IPAH
Katharina Jandl (Graz, Austria), Leigh M. Marsh, Julia Hoffmann, Ayse Ceren Mutgan, Oliver Baum, Wilhelm Bloch, Katharina Sinn, Walter Klepetko, Ákos Heinemann, Andrea Olschewski, Horst Olschewski, Grazyna Kwapiszewska

Improvements in the dysfunctional right ventricle with Macitentan treatment in a sugen/hypoxic rat model of pulmonary hypertension
Gerard Murphy (Glasgow (Glasgow), United Kingdom), Geeshath Jayasekera, James Mullin, Lindsay Gallagher, Yvonne Dempse, David J Welsh

Beta 3 adrenoceptor: a potential therapeutic target for pulmonary arterial hypertension
Pedro Mendes Ferreira, Birger Tieleman, Allard Wagenaar, Chantal Dessy, Jean-Luc Balligand, Marion Delcroix, Rozenn Quarcq, Catharina Belgé

Pulmonary artery endothelial cell exposure to hepcidin affects BMP-signalling; relevance to vascular remodelling in PAH
Quezia K Toe (Essex, United Kingdom), Ioannis Panselinas, Katie Clementson, Mazziah M Ghazaly, S John Wort, Gregory J Quinlan

Soluble LR11 level is correlated with the severity of pulmonary hypertension due to left heart disease.
Yusuke Joki (Tokyo, Japan), Hakuoh Konishi, Kiyoshi Takasu, Kazunori Shimada

Extended versus limited stimulation-guided pulmonary artery catheter denervation in normotensive pigs: acute hemodynamic effects
Natalia Goncharova (Saint-Petersburg, Russian Federation), Alexandr Vakhрушев, Heber Ivan Condori Leandro, Stepan Voronin, Lada Murashova, Lev Korobchenko, Elizaveta Andreeva, Lubov Mitrofanova, Dmitry Lebedev, Olga Moiseeva, Evgeny Mikhailoy

Mendelian Randomization Study Showed No Causality between Type 2 Diabetes and Pulmonary Hypertension
Jiarui Zhang (, China), Jing Liao, Yuanwei Chen, Yuqin Chen, Jian Wang

Role of IL-11 system in Pulmonary Hypertension
Ines Roger (Valencia, Spain), Javier Milara, Cristina Estornut, Amparo Bayarri, Antonio Garcia, Julio Cortijo
### No indication of insulin resistance in idiopathic PAH with preserved physical activity

Bence Nagy (Graz, Austria), Gabor Kovacs, Adrienn Tornyos, Eva Svehlikova, Vasile Foris, Chandran Nagaraj, Grazyna Kwapiszewska, Thomas R. Pieber, Andrea Olschewski, Horst Olschewski

### Pre-congress content

**Session:** 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)

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


#### A high pulmonary capillary blood volume allows for increased aerobic exercise capacity at a lower ventilatory cost in healthy adults

Vitalie Faoro (Bruxelles, Belgium), Kevin Forton, Robert Naeije

#### Proteomic profiling identifies an exercise signature in patients with pulmonary arterial hypertension

Jane Leopold (Boston, United States of America), Bradley Maron, Craig Ballard, Aaron Waxman, David Systrom

#### Effects of endurance exercise training on circulating endothelial progenitor cells and endothelial microparticles in patients with pulmonary arterial hypertension

Clara Martin Ontiayuelo (Sant Cugat del Vallés (Barcelona), Spain), Diego Agustin Rodriguez Chiaradia, Isabel Blanco, Olga Tura Ceide, Anna Rodó Pin, Anna Herranz, Jessica Garcia, Victor Peinado, Lucilla Piccari, Lluis Molina Ferragut, Joan Albert Barberà

#### Cardiopulmonary exercise test unveils abnormal exercise physiology in patients affected by pulmonary arterial hypertension with a low-risk profile 6 minute walk distance.

Beatrice Vigo (Milano (MI), Italy), Rocco Francesco Rinaldo, Rachel Davies, Francesco Lo Giudice, Gulammedhi Haji, Stefano Centanni, Luke Howard

#### Cardiopulmonary exercise testing responses to initial treatment in Group 1 pulmonary hypertension

Rocco Francesco Rinaldo (Milano (MI), Italy), Beatrice Vigo, Rachel Davies, Gulammedhi Haji, Francesco Lo Giudice, Stefano Centanni, Luke Howard

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

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

#### Real-world stair challenge reveals differing ventilatory responses in patients with Idiopathic pulmonary arterial hypertension and Eisenmenger syndrome

Ruth Meniven (London, United Kingdom), Yingmei Luo, Christopher Warren, Laura Price, Aleksander Kempny, S. John Wort, Konstantinos Dinopoulos, James Hull, Colm McCabe

#### Cardiopulmonary exercise testing in risk stratification of patients with PAH associated with congenital heart disease and Eisenmenger syndrome

Svetlana Gratsianskaya (Moscow, Russian Federation), Anna Aleevskaya, Zarina Valieva, Tamila Martynyuk

#### Effect of normobaric hypoxia on constant work-rate cycle time in patients with precapillary pulmonary hypertension - a RCT

Simon Raphael Schneider (Zürich, Switzerland), Laura C Mayer, Mona Lichtblau, Charlotte Berler, Esther I Schwarz, Stéphanie Saxer, Michael Furian, Konrad Bloch, Silvia Ulrich

#### Exercise capacity in patients with Pulmonary Arterial Hypertension: multicentric analysis of aerobic capacity and survival

Rodrigo Torres-Castro (Santiago, Chile), Elena Gimeno-Santos, Maria Lorena Coronel, Pilar Escribano-Subias, Isabel Blanco, Joan Albert Barberà

#### Impact of timing on right heart catheterization measurements in pulmonary hypertension

Athisithan Yogeswaran (Giessen, Germany), Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall
M PAP/CO-slope during exercise as predictor of mortality in patients at risk for pulmonary hypertension.
Philipp Douschan (Graz, Austria), Alexander Avian, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

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 Perego, Antoine Bondue, Antonella Zambon, Luigi P Badano, Michele Senni, Gianfranco Parati, Jean-Luc Vachiéry

Predictors of a precapillary component in patients with postcapillary pulmonary hypertension
Damien Fard (Créteil, France), Athénais Boucly, Mariana Preda, David Montani, Xavier Jais, Laurent Savale, Xavier Mignard, Mitja Jevnikar, Etienne-Marie Jutant, Andrei Seferian, Marc Humbert, Jean-Luc Vachiéry, Olivier Sitbon

Pulmonary artery pressure-flow relation during exercise in highlanders vs. lowlanders
Mona Lichtblau (Zürich, Switzerland), Stéphane Sambry, Antje Wende, Paul Appenzeller, Philipp Scheuwiller, Michael Furian, Maamed Mademilov, Ulan Sheraliev, Talant Sooronbaev, Konrad Bloch, Silvia Ulrich

Is cardiac output assessed by inert gas rebreathing technique predictive of mortality in pulmonary hypertension?
Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Katherine Buncik, Robert Mackenzie, John Cannon, Karen Sheares, Dolores Taboada, Joanna Pepke-Zaba*, Mark Toshner*

Pulmonary exercise hemodynamics in patients with liver cirrhosis - a stress echocardiography study.
Alexander Altekruse (Graz, Austria), Gabor Kovacs, Teresa Sassmann, Vasile Foris, Alexander Avian, Vanessa Stadlbauer, Rudolf Stauber, Horst Olschewski, Philipp Douschan

Pulmonary Vascular Resistances are Predictors of 3-year-survival in Systemic Sclerosis
Katarina Zeder (Graz, Austria), Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

Pre-congress content

E-poster session: Clinical evaluation, biomarkers and risk assessment of pulmonary hypertension

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

Chairs: Valentina Mercurio (Napoli, Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)

Precapillary pulmonary hypertension in patients with a high HFpEF probability: Insights from the Amsterdam UM C PAH-cohort
Azar Kianzad (Amsterdam, Netherlands), Frances S De Man, Lucas R Celant, Anton Vonk Noordegraaf, Louis M Handoko, Harm Jan Bogaard

A Minimal Clinically Important Difference for CAMPHOR in Idiopathic Pulmonary Arterial Hypertension
Katherine Buncik (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

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
Jan Fuge (Hannover, Germany), Manuel Jonas Richter, Henning Gall, Ardeschir Ghofrani, Marius M Hoeper, Karen M Olsson

Lung perfusion in pulmonary hypertension - results from the RESPIRE study
Paul Hughes (Sheffield (South Yorkshire), United Kingdom), Andrew Swift, Frederick Wilson, Marcella Cogliano, Faisal Alandejani, Anthony Cahn, Lindsay Kendall, David Kiely, Jim Wild

Risk stratification and prognostic factors in patients with pulmonary arterial hypertension and comorbidities
Benjamin Egenlauf (Heidelberg, Germany), Panagiotis Xanthouli, Maria Kögler, Alberto Marra, Nicola Benjamin, Lukas Fischer, Christina Eichstaedt, Satoshi Haruyumova, Christian Nagel, Ekkehard Grüng

Risk assessment, therapy and cardiovascular comorbidity in patients with pulmonary arterial hypertension
Katleen Swinnen (Leuven, Belgium), Marion Delcroix, Rozenn Quarck, Celine Dewachter, Jean-Luc Vachiéry, Catharina Belge

Cardiac MRI right atrial area measurement thresholds for risk stratification in patients with PAH
Faisal Alandejani (Sheffield, United Kingdom), Euan Tubman, Yousef Shahin, Robert Lewis, Krit Dwivedi, Dheyaa Alkhanfar, Sameer Alabed, Chris Johns, Pankaj Garg, Robin Condliffe, Allan Lawrie, Jim Wild, David Kiely, Andrew Swift
Risk status at selexipag initiation in pulmonary arterial hypertension (PAH): Insights from EXPOSURE
Sean Gaine (Dublin, Ireland), Pilar Escribano, Patricia Biedermann, Audrey Muller, Hong Sun, Stefan Söderberg, Tobias J Lange

Metabolic profiling of pulmonary vascular phenotypes in systemic sclerosis
Catherine Simpson (Baltimore, United States of America), Stephen Mathai, Todd Kolb, Paul Hassoun, Susan Aja, Aurelie Roux, David Graham, Rachel Damico

Gamma-Glutamyltransferase in pulmonary hypertension: A reliable biomarker?
Jonas Lund (Germany), Athiththan Yogeswaran, Khodr Tello, Natascha Sommer, Jan Grimminger, Lars Harbaum, Jan K. Hennings, Hans Klose, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall

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 Silbermagel, Margot Neiswirth, Jürgen Behr, Ralf Göres, 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, Yu-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), Yu-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 (Glasgow, United Kingdom), Michael Megettrick, Alexander Maclellan, Melanie Brewis, Colin Church, Martin Johnson

Prevalence of hypertventilation syndrome in pulmonary arterial hypertension
Etienne-Marie Jutant (Paris, France), Clara Malka Ruimy, Antoine Beurnier, Abdelkader Belguendouz, Marianna Preda, Xavier Jaïs, Laurent Savale, Gilles Garcia, Marc Humbert, Olivier Sitbon, David Montani
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 Papamatheakis, 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, Samer Alabed, Chris Johns, Alex Mk Rothman, Pankaj Garg, Robin Condiffe, Rehan Quaderi, David G Kiely, Jim Wild, Andrew J Swift

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

Survival in patients with chronic thromboembolic pulmonary hypertension in the modern management era
Yu Taniguchi (Kobe, Japan), Yoichiro Matsuoka, Hiroyuki Onishi, Noriaki Emoto, Hidetazu Nakai, Kenji Okada, Kenichi Hirata

Epidemiology of chronic thromboembolic pulmonary hypertension (CTEPH) in the Czech Republic
Pavel Jansa (Jiminy, Czech Republic), David Ambrož, Matyáš Kuhn, Vladimir Dytrych, Aleš Linhart, Jaroslav Lindner, Audrey Müller

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), Raphaël Rainone, Benjamin Querin, Najiba Alioua, Laurent Bertoletti, Sylvie Raspaud, Xavier Jaïs, Laurent Savale, Olivier Sitbon, 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, Panagiota Xanthoulis, Eckhard Mayer, Ekkehard Grünig, Stefan Guth

Pulmonary angioplasty vs exclusive medical treatment in inoperable chronic thromboembolic hypertension-initial outcomes from a pulmonary hypertension centre
Ines Da Furtado (Vila do Conde, Portugal), Duarte Silva, Luisa Carvalho, Mario Santos, Fabienne Gonçalves, Andre Luz, Abilio 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 (Zürich, Switzerland), Michael Mcinnis, Matthias Eberhard, Marc De Perrot, Silvia Ulrich, Ilhan Inci, Isabelle Opitz

LSC - 2019 - Comparison of metabolic profile in endothelial cells of chronic thromboembolic pulmonary hypertension and pulmonary arterial hypertension

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 Świetlik (Warszawa, Poland), Pavandeep Ghataorhe, Kasia Zalewska, John Wharton, Luke S Howard, DoloresTaboada, 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 López, Theodoros Papasotiropoulos, Fabian Schlaepfer, SilviaUlrich, Michaela B. Kirschner

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

E-poster session: Phenotyping sleep-disordered breathing and its impact on various diseases

Disease(s): Sleep and breathing disorders, Airway diseases
Method(s): Epidemiology, General respiratory patient care, Public health, Physiology, Pulmonary rehabilitation, Pulmonary function testing, Endoscopy and interventional pulmonology
Chairs: Johan Verbraecken (Edegem (Antwerp), Belgium), Athanasia Pataka (Thessaloniki, Greece)

Late Breaking Abstract - Incidence of Insomnia and its correlations with parameters of polysomnography
Athina Vlachou (Athens, Greece), Kallirroi Lambrou, Emmanouil Vagiakis

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

Assessment of Sleep Quality among Patients who Attended Pulmonary Rehabilitation Department in KAMC.
Jawaher AlOtaihi (Saudi Arabia, Saudi Arabia), Munirah Alhwaimel, Sara Al Rashidi, Basma Hawsawi, Yassin Ismaiel

Sleep disorders in a cohort of Amyotrophic Lateral Sclerosis patients
Bebiana Da Conceição Fernandes Falheiros Conde (Vila real, Portugal), Luisa Nascimento, Margarida Carvalho, JoelmaSilva, Catarina Parra, Elisa Matos

ARE ANIMALS OUR BEST FRIENDS IN THE BEDROOM?
Alexandre Manuel Carvalho da Silva Almendra (Braga, Portugal), Vera Clérigo, João Carvalho, José Pereira, Paula Pinto, Raquel Matos, Helena Estevão, Joaquim Moita

EAT, BREATHE, SLEEP with Osteogenesis Imperfecta (OI)
Antonella LoMauro (Milano (MI), Italy), Ramona De Amicis, Vittorio Landoni, Giulia De Carlo, Alice Delle Donne, LuanaVicentini, Paolo Fraschini, Simona Bertoli, Andrea Aliverti

Is there a mortality disadvantage in tracheobronchomalacia?
Nneka Nwosu (Liverpool (Merseyside), United Kingdom), Hassan Burhan, Ari Manuel

Analysis of pulmonary function and obstructive sleep apnea in patients with COPD, asthma and idiopathic pulmonary fibrosis.
Kostiantyn Bazyka (Kyiv, Ukraine), Liudmyla Shvaiko, Olena Stadniychuk, Tetiana Kharchenko, Tetiana Kuzmich, TetianaKvostonko

Working conditions and insomnia: the case of Greek hospital physicians
Eirini-Sofia Karampi (Peristeri - Athens, Greece), Katerina Baou, Katerina Baou, Eleni Perraki, Martha Andritsou, SpyridonZakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Emmanouil Vagiakis

Sleep and respiration in orchestra musicians - how wind instruments affect respiration
Naima Laharnar (Berlin, Germany), Corin Hild, Stefanie Uibel, Sandra Zimmermann, Martin Glos, Thomas Penzel, IngoFietze

Disturbed sleep and health-related quality of life among hospital physicians
Eirini-Sofia Karampi (Peristeri - Athens, Greece), Katerina Baou, Katerina Baou, Eleni Perraki, Martha Andritsou, FoteiniDariotaki, Stavroula Koutsoumpou, Angeliki Giamarelou, Makris Anastasios, Spyridon Zakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Vagiakis Emmanouil

Effects of non-invasive mechanical ventilation (NIV) on the upper airway (UA) in patients with amyotrophic lateral sclerosis (ALS) and role of respiratory endoscopy in their assessment
Mikel Sarasate Azkona (Barcelona, Spain), Yuliana Pascual, Eva Farrero, Ana Cordoba, Noelia Cubero De Frutos, MartaDiez Ferrer, Cristina Martin Cabeza, Lidia Méndez Mangas, rosa Lopez Lisboa, Enric Prats

Respiratory Sleep Disorders Among 37 Patients With Laryngeal Dysfunction.
Kamila Sedkaoui (Toulouse Cedex 9, France), Emmanuelle Mouchon, Woisard Virginie, Sabine Crestani, Pascale Fichauch-Bourin, Marianne Lescouzzeres, Alain Didier
Respiratory events and nocturnal hypercapnia in patients affected by Amyotrophic lateral sclerosis: the role of body mass index (BMI)
Grazia Crescimanno (Palermo (PA), Italy), Maria Canino, Manuela Bertini, Oreste Marrone

Sleep disorders in patients with chronic obstructive pulmonary disease
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Roman Yatsyshyn, Petro Gerych, Natalia Cherniuk

Characterisation of sleep deprived breathing & mood disorders in patients with heart failure
Maitri Munsif (Melbourne, Australia), Rohit Srivatsa, Belinda Liu, Jyotika Prasad, Belinda Miller, Matthew Naughton, Eli Dabscheck

Sleep disorder and its associated risk of cardiac arrhythmia in Asian population
I-Duo Wang (Taipei, Taiwan), Wu-Chien Chien, Pei-Yi Tsai, Chi-Hsiang Chung, Chung-Kang Peng

Rare cause of central hypoventilation: ROHHAD Syndrome
Gizem Özcan (Ankara, Turkey), Elif Özsü, Fazılcan Zirek, Nazan Çobanoğlu

Nocturnal hypoxemia, ambulatory blood pressure and chronic mountains sickness in the highest city in the world
Elisa Perger (Brescia (BS), Italy), Sebastien Bailleul, Francois Esteve, Aurelien Pichon, Davide Soranna, Stephane Doubreleau, Yann Savina, Mathilde Ullie-Che-Roche, Julien V Brugnaux, Emeric Stauffer, Laura Oberholzer, Connor Howe, Ivan Hannco, Carolina Lombardi, Grzegorz Bilko, Renaud Tamisier, Jean-Louis Pepin, Samuel Verges, Gianfranco Parati

The ALONNISOS STUDY: Cross-sectional study of the prevalence of Obstructive Sleep Anea Syndrome (OSAS) and Chronic Obstructive Pulmonary Disease (COPD) in the general population of Alonissos.
Sotiriou Zarogiannis (Larisa, Greece), Petros Kassas, Evdoxia Gogou, Charalampous Varsamis, Konstantinos Vogiatzidis, Aggeliki Psatha, Maria Pinaka, Dimitra Siachpazidou, Alexandra Sistou, Efeletheros Papazoglou, Despoina Kalousi, Konstantina Vatzia, Kiriki Astara, Nikolaos Tsouvakas, Konstantinos Gourgoulidianis

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

E-poster session: A knowledge update on respiratory muscle function, assessment and training
Disease(s): Respiratory critical care, Airway diseases, Sleep and breathing disorders
Method(s): Pulmonary function testing, Pulmonary rehabilitation, Respiratory intensive care, Physiology, General respiratory patient care, Imaging
Chairs: Melda Saglam (Ankara, Turkey), Chair to be confirmed

Relationship between the respiratory function with motor functionality in Duchenne Mucular Dystrophy
Vanessa Resqueti (Natal (RN), Brazil), Layana Marques, Priscila Rezende, Ilsa Priscila Santos, Karyna Fonseca, Marina Lyra, Mario Emilio Durado, Guilherme Fregonezi

Correlations between respiratory function and functional status in Amyotrophic Lateral Sclerosis patients
Vanessa Resqueti (Natal (RN), Brazil), Karen Pondofe, Ozana Brito, Ana Alme Marcelino, Layana Marques, Priscila Rezende, Italo Nathan Silva, Antonio Sarmento, Mario Emilio Durado, Guilherme Fregonezi

Comparison of two different methods for assessing inspiratory muscle strength in patients with multiple system atrophy: a pilot study
Begum Unlu (Istanbul, Turkey), Semra Oguz, Mine Gulden Polat, Saadet Ufuk Yurdalan, Sibel Ertan, Hulya Apaydin

Expiratory muscle training improves pharyngeal muscles and swallowing function in patients with dysphagia
Yuichi Tawara (Hamamatsu, Japan), Ichiro Fujishima, Satoshi Hanai, Shinichi Arizono, Ryo Kozu

Mechanisms of exertional dyspnea in unilateral diaphragmatic dysfunction
Tin Gojevic (Ieuven, Belgium), Mayra Caleffi Pereira, Sauwaluk Dacha, Zafeiris Louvaris, Dries Testelmans, Ghislaine Gayan-Ramirez, Rik Gosselink, Daniel Langer

Is it more effective to begin with inspiratory muscle warm-up before inspiratory muscle training in COPD patients? Preliminary findings of a randomized controlled trial
Ridvan Aktan (balcova (izmir), Turkey), Sevgi Özalevli, Aylin Ozgen Alpaydin

Enhanced balance strategy after inspiratory muscle training in patients with COPD, an interim analysis
Lotte Janssens (Diepenbeek, Belgium), Daniel Langer, Sauwaluk Dacha, Zafeiris Louvaris, Simon Brumagne, Nina Goossens, Charlotte Amerjeckx, Wim Janssens, Luc Janssens, Rik Gosselink

Effect of expiratory muscle training on peak cough flow in children and adolescents with cystic fibrosis
Cigdem Emirza (Istanbul, Turkey), Goksen Kuran Aslan, Ayse Ayzit Kiline, Haluk Cezmi Cokugras
Respiratory Muscle Endurance, Peripheral Muscle Strength and Walking Parameters in Adult Cystic Fibrosis Patients
Rabia Bagci (Bursa, Turkey), Naciye Vardar-Yagli, Melda Saglam, Deniz Inal Ince, Fatma Gül Yazıcıoglu, Ebru Çelebioglu

Comparison of Respiratory Muscle Strength, Functional Capacity and Peak Oxygen Uptake In Patients With End-Stage Liver Disease and Liver Transplantation
Bilge Taşkın (Ankara, Turkey), Naciye Vardar-Yagli, Melda Saglam, Ebru Calik-Kütükçü, Deniz Inal-Ince, Onur Keskin, Ahmet Bulent Dogrul

Relationship of Respiratory Muscle Endurance Workload with Maximal Oxygen Consumption and Fatigue in Individuals Surviving Colorectal Cancer
Mehmet Fatih Sanver (Ankara, Turkey), Naciye Vardar Yağlı, Melda Sağlam, Haluk Tekerlek, Ebru Çalık Kültükçü, Deniz Inal Ince, Saadettin Kılıçkap

The effects of expiratory muscle training after colorectal surgery
Erhan Kizmaz (Denizli, Turkey), Orcin Telli̇ Atalay, Suleyman Gursoy, Ugur Sungurtekin

Relation of Respiratory Function and Functional Capacity, Body Composition in Individuals with Alzheimer’s Disease
Kübra Nur Menengiç (İstanbul, Turkey), Feray Gümüş, Uğur Ovacık, Nilgün Çınar, İpek Yeldan

The immediate effect of manual diaphragmatic stretching technique on diaphragmatic mobility among cerebral palsy: a pilot study
Surussawadi Bennett (Khon Kaen, Thailand), Wantana Siritaratiwat, Nittaya Tanrangka, Michael Bennett, Jaturat Kanpptaya

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 Rio, Ane Arbillaga Etxarri, Elena Gimeno-Santos, Jordi Vilaro, Rodrigo Torres-Castro, Cristina Serrano Viegua, Ana B Varas De La Fuente, Pilar Bravo Cortés, Concepción Martin Cortijo, Esther Garcia Delgado, José Luis Valera Félices, Carolina González Montañéz, Esther Giménez Moolluizian, Yolanda Sanesteban Hermida, Rosco Martin Valero, Guilherme A Fregonezi, Marina Francin Gallego, Beatriz Herrero Cortina, Jorge Alvarez Rivas, Antonio T Rios Cortés

Antenor Rodrigues (Toronto, Canada), Yijun Xiong, Irene Telias, Ewan Goligher, Laurent Brochard, W. Darlene Reid

Inspiratory muscle timing activation during inspiratory loading in healthy adults-preliminary results.
Antenor Rodrigues (Toronto, Canada), Yijun Xiong, Irene Telias, Dmitry Rozenberg, Ewan Goligher, Laurent Brochard, W. Darlene Reid

Acute effects of inspiratory muscle training at different intensities in healthy young people
Aylin Tanrıverdi (Izmir, Turkey), Sema Savci, Buse Ozcan Kahraman, Ismail Ozsoy, Ebru Ozpelit

How is ultrasound imaging being used to assess respiratory musculature? A systematic review
Selina M Parry (Parkville (VIC), Australia), Claire Baldwin, Catherine Granger, Kirby Mayer, Shaza Abo, Michael Paris, George Ntoumenopoulos, Amy Pastva, Doa El-Ansary, Marina Mourtzakis, Aarti Sarwal

Pre-congress content

Session 00:00 - 23:59
E-poster session: Burden and predictive factors for chronic lung diseases and comorbidity
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
Late Breaking Abstract - Compare outcomes between COPD patients treated with tiotropium/olodaterol (TIO/OLO) and umeclidium/vilanterol (UME/C/V)
Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston
Relationship of the polymorphism Lys198Asn endothelin-1 gene with COPD and coronary heart disease.
Anastasiia Lilevska (Vinnitsa, Ukraine), Valentyna Sierkova, Olena Savytska
Arterial stiffness in patients with chronic obstructive pulmonary disease combined with arterial hypertension
Ekaterina Makarova (Nizny Novgorod, Russian Federation), Marina Milutina, Vasily Fedotov, Nikolay Menkov, Nataliya Lyubavina, Svetlana Plastinina

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

The main predictors and consequences of osteosarcopenia in COPD patients
Angelina Suleymanova (Moscow, Russian Federation), Irina Baranova

Correction of the anemia of chronic disease among COPD patients
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Liudmyla Prystupa

Tolerance of inhalation of salt particles in COPD patients
Ulla Møller Weinreich (Ålborg, Denmark), Sisse Dyrmann Nielsen

Sputum microbiome richness is decreased in patients treated for acute exacerbations of eosinophilic chronic obstructive pulmonary disease
Zhiyi He (Nan Ning, China), Yujing Qi

Mass spectrometry proteomic biomarkers identify acute COPD exacerbations
Omer Elneima (Leicester, United Kingdom), Thong Huy Cao, Hamish Mcauley, Mohammadali Yavari Ramsheh, Vijay Mistry, Neil Greening, Leong Ng, Christopher Brightling

Clinical factors associated with baseline blood eosinophils among patients with asthma or COPD: NOVELTY study
Hana Müllerová (Ickenham, United Kingdom), Donna K Finch, Alvar Agusti, Marianna Alacqua, Gary P Anderson, Richard Beasley, Laura Belton, Alex De Giorgio-Miller, J Mark Fitzgerald, Rod Hughes, Ian D Pavord, David Price, Eleni Rapsomaniki, Mohsen Sadatsafavi, Jørgen Vestbo, Elisabeth H Bel

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

Lung function and exercise capacity in COPD phenotypes with and without emphysema
Øystein Rasch-Halvorsen (Trondheim, Norway), Erlend Hassel, Ben Brumpton, Haldor Jessen, Martijn Spruit, Arnulf Langhammer, Sigurd Steinhann

Effects of Diltiazem on pulmonary hemodynamics and right heart function in patients with chronic obstructive pulmonary disease (COPD)
Valentin Calancea, Constantin Martiniuc, Ecaterina Luca, Nicolae Bodrug, Doina Barba, Eudochia Terna, Ion Sirbu, Nelea Ghicavii, Sergiu Matcovschi

Leptin levels and adiposity measures in overweight and obese asthma patients
Armine Gasparyan (Moscow, Russian Federation), Nathalia Chichkova, Nathalia Serova, Evgeniy Gitel

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

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

Long-term noninvasive ventilation in obesity hypoventilation syndrome without severe obstructive sleep apnoea
Mª Angeles Sanchez Quiroga (Plasencia, Spain), 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 Negrin, Maria Martel Escobar, Ferran Barbe, Babak Mohklesi

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, Maria Luz Alonso Alvarez, Estrella Ordax Carballo, Teresa Gómez García, Mónica González, Soledad López Martin, José Maria Marin, Sergi Marti, Trinidad Diaz Cambriles, Eusebi Chiner, Carlos Egea, Javier Barca, Francisco José Vazquez Polo, Miguel Angel Negrin, Maria Martel Escobar, Jaime Corral

Pre-congress content Session 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

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

Pulmonary sarcoid-like granulomatosis during tumour necrosis factor-alpha inhibition: a scoping review
Allison Michaud (Calgary, Canada), Daniel Vis, Helen Lee Robertson, Jason Weatherald

Chronic Hypersensitivity Pneumonitis and mortality: impact of comorbidities
Ana Luisa Fernandes (Matosinhos, Portugal), Bruno Cabora, Sara Dias, Jorge Ferreira, Inês Neves

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 Muxi, Marc Boada, Marcelo Sánchez, José Ramirez, Carlos Agustí, Manuel Ramos-Casals, Jacobo Sellares

Characterisation of patients with chronic hypersensitivity pneumonitis (CHP) - a seven year single centre experience
Abhinav Tiwari (Southampton, United Kingdom), Anna Donaldson, Thomas Jones, Vanessa Tittmuss, Suresh Babu

Allergic diseases in patients with sarcoidosis- data from a tertiary pulmonary center
Piotr Lacwik (Łódź, Poland), Joanna Milkowska-Dymanowska, Mateusz Kotecki, Łukasz Gwadera, Justyna Sobczak, Sebastian Majewski, Adam Bialas, Maciej Kupczyk, Piotr Kuna, Wojciech Piotrowski

Comorbidities in sarcoidosis: a retrospective Italian study
Ilaria Aredano (Parma (PR), Italy), Barbara Burgazzi, Elena Beneventi, Matteo Goldoni, Veronica Alfieri, Marina Aiello, Fabio Agusta, Giuseppina Bertorelli, Alfredo Antonio Chetta

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

Relapse ratios and factors affecting relapse in sarcoidosis patients that are followed at least 5 years.
Nagihan Orhan Özer (İstanbul, Turkey), Elif Yelda Niksarlioglu, Elif Altundas Hatman, Ayşe Yeter, Emine Şahin, Güngör Çamsar

Clinical characteristics and prognosis of sarcoidosis in Western China: a retrospective study
Xiang Tong (Chengdu (Sichuan), China), Dongguang Wang, Sitong Liu, Hong Fan

Problems of diagnosis of pulmonary sarcoidosis
Zhanna Laushkina (Novosibirsk, Russian Federation)

Features of scar sarcoidosis: 20 years observation study in Kharkiv, Ukraine
Olena Konstytynovska (Kharkiv, Ukraine), Petro Poteiko, Valentyna Psyhynska

Cardiac symptoms are a survival predictor in sarcoidosis
Theresia Mikolasch (Cambridge (Cambridgeshire), United Kingdom), Henry Yung, Muhunthan Thillai

Predictors of Progression in Patients with Pulmonary Sarcoidosis
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Ksenia Ostrovskaya

?linical and radiological variants of fibrosis pulmonary sarcoidosis
Olga P. Baranova (St. Petersburg, Russian Federation), Alexandra A. Speranskaya, Dali V. , Michail M. Ilkovich

Rescue administration of cyclophosphamide in patients with DAH - retrospective evaluation and outcome from our ICU
Jirí Blažek (Nezvěstice, Czech Republic), Olga Kirchnerová, David Havel, Jan Klaboch, Jan Baxa, Petra Moláčková

Personality and chronotype as predictors of sarcoidosis-associated fatigue - a cross-sectional study
Joanna Milkowska - Dymanowska (Łódź, Poland), Łukasz Mokros, Łukasz Gwadera, Tadeusz Pietras, Pawel 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. 
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 Wiamsemisky, Selma Ahmetovic, Cécile Daccord, Adam Ŭga, Laurent Nicod

Pre-congress content

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: Rik Gosselink (Leuven, Belgium), Chair to be confirmed

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 Wongwian, Wanupong Kitjawan, Thiti Sricharoenchai

Canadian consensus recommendations for a research agenda in pulmonary rehabilitation post-acute exacerbation of COPD
Tania Janaudis-Ferreira (Montreal (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 Spahija, Michael Stickland, Joshua Wald

A 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 Battista Dos Reis, Catherine Cely Oliveira, Clarice Tanaka

PHYSIOTHERAPY EARLY MOBILIZATION IN CARDIAC SURGICAL ICU.
Stefano Zampese (Ivrea, Italy), Camilo Corbellini, Flavia Pinto, Marta Lazzeri

ICU Physiotherapist’s early mobilization theoretical and practical knowledge: What do they know?
Luciana Chiavegato (São Paulo (SP), Brazil), Marcella 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 (TaoYuan, Taiwan), Yi-Fei Hsin, Shu-Hsin Chen, Teng-Jen Yu, Chung-Chi Huang

Airway obstruction due to occluded cuffless tracheostomy: A prospective longitudinal study
JOSE SANCHEZ (Valencia, Spain), Maria Dels Angels 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

**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

**Chairs:** Chair to be confirmed

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<td>Elif Dagli (Istanbul, Turkey), Ummuhan Pecce, Osman Elbek, Murat Guner, Pinar Ay, Tanzer Gezer, Murat Ceyhan, Fusun Yildiz</td>
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<td>A decade after introducing WHO Report on the Global Tobacco Epidemic, trend analysis of implementation of the WHO FCTC MPOWER in Eastern Mediterranean Region</td>
<td>Gholamreza Heydari (Tehran, Islamic Republic of Iran)</td>
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<td>Nitika Kaushal (Bexleyheath (Kent), United Kingdom), Burhan Khan</td>
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<td>Reasons for smoking in patients from the pulmonology outpatient clinic of Brazil</td>
<td>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</td>
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<td>Helmi Ben Saad (Sousse, Tunisia), Khansa Derbal, Chiraz Maatoug, Samia Ernez, Khaoula Hadj Mabrouk</td>
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<td>Smoking cessation program: a 10-year single-centre experience</td>
<td>Margarida V. Matias (Ajudia, Portugal), Ana Luisa Ramos, Marina Alves, Joana V. Carvalho, Ana Filipa Santos, Luciana Bento, Cristina Matos, Fernando Nogueira</td>
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<td>Management of the outpatient smoking cessation consultation in a tertiary hospital</td>
<td>Diurbis 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 Mirambeaux Villalona</td>
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<td>Diverse provenience in a smoking cessation program: is there a difference?</td>
<td>Margarida V. Matias (Ajudia, Portugal), Ana Luisa Ramos, Marina Alves, Luciana Bento, Cristina Matos, Fernando Nogueira</td>
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<td>“Smoking cessation treatment without previous reduction has no benefits” - a patient’s myth or truth?</td>
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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

E-VOLUTION 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 Garcia 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

E-VOLUTION OF CRAVING ACCORDING TO THE TREATMENT USED TO STOP SMOKING.
Miguel Ángel 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 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

Changes in body mass according to smoking and COPD status in the CPRD
Spencer Keene (Maastricht, Netherlands), Annemariek Driessen, Rachel Jordan, Frits Franssen, Alice Sitch, Peymane Adab, Frank De Vries

National epidemiological study of smoking cessation in danish patients with chronic obstructive pulmonary disease
Dea Kejlberg 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 Binnmny, Peter Edfelt, Yvonne Jjöö, Kerstin Fjällman-Schärberg, Anne Lindberg, Alf Tunsäter, Ann Ekberg Jansson, Caroline Stridsman

Mental health disorders as barries 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, Maritisa 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 Hoffstadler Deiques Fleig (Santa Maria (RS), Brazil), Isabella Briixner, 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 Gratziou, Nikolaos Tentolouris, Paraskevi Katsaounou

Using QI methodology to improve training & delivery of smoking cessation advice amongst Portsmouth inpatients to improve long term outcomes
Laura Wiffen (Portsmouth, United Kingdom), Ben Green, Cheryl Kay, Ellie Lanning, Alexander Hicks

The effectiveness of brief advice in ERS-WHO countrywide smoking cessation training in Ecuador
Sofia Belo Ravara (Covilhã, Portugal), Dongbo Fu, Charlotte Pisinger, Vinayak M Prasad, Rosa 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

Pre-congress content

E-poster session: Advances in lung function testing

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
Renee Jensen (Toronto (ON), Canada), Michelle Shaw, Sanja Stanojevic, Julia Guido, Charles Clem, Sylvia Jara, Stephanie Davis, Hartmut Grasemann, Melinda Solomon, Neil Sweeney, Valerie Waters, Felix Ratjen

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 Yildiz (Istanbul, Turkey), Rustem Mustafaoglu, 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 Bettayeb, 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 bioImage 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 Dr Cruz, 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 Dr Cruz, 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

Breathomics during pulmonary function test under varying airway resistance
Pritam Sukul (Rostock, Germany), Jochen Schubert, Wolfram Miekisch

Reproducibility of Structured Light Plethysmography (SLP) in different positions
Eyas Alhuthail (Birmingham, United Kingdom), Brendan Cooper, Andrew Coney

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**Pre-congress content**

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

**E-poster session: Pathophysiology and treatment of obstructive sleep apnoea**

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

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

**Chairs:** Chair to be confirmed

**Inhibition of miR-34a protects human umbilical vein endothelial cells against intermittent hypoxia-induced endothelial injury by targeting ATG7**
Qingshi Chen (Quanzhou, China), Guofu Lin, Hai Lin, Qichang Lin

**Inhibition of lncRNA MALAT1 Protects H9c2 Cells against Intermittent Hypoxia-Induced Injury by Targeting MiRNA-193a-3p**
Qingshi Chen (Quanzhou, China), Guofu Lin, Hai Lin, Qichang Lin

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

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

**Peculiarities of GABA levels in plasma and urine of asthma patients with obstructive sleep apnea**
Elizaveta Shieludko (Blagoveshchensk (Amur Oblast), Russian Federation), Denis Naumov, Dina Gassan, Olesya Kotova, Juliy Perelman

**IFN? involvement in adipogenesis of OSA patients**
Yan Wang (, China), Xiaolei Zhang
Association of obstructive sleep apnea hypopnea syndrome with cardiovascular disease: a candidate gene association study
Dimitrios Raptis (Larissa, Greece), Foteini Malli, Georgia Rapti, Dimitra Siachpazidou, Chrysoula Marogianni, Zoe Daniil, Ilias Dimas, Gregory Giamouzis, Chaido Pastaka, Georgia Xiromerisiou, Konstantinos I. Gourgoulianis

Socioeconomic factors and adherence to Continuous Positive Airway Pressure - a population-based cohort study
Andreas Palm (Gavle, Sweden), Ludger Grote, Mirjam Ljunggren, Josefien Sundh, Jenny Theorell_haglöw, Magnus Ekström

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

CPAP usage patterns in OSA patients with suboptimal adherence
Matteo Bradicich (Zurich, Switzerland), Fabian Alexander Grewe, Thomas Gaisl, Maurice Roeder, Sira Thiel, Noriane Andrina Sievi, Malcolm Kohler

Adherence predictors to positive airway pressure (PAP) treatment in patients with obstructive sleep apnea (OSA).
Ana Daniela Francela Lopes (Porto (Porto), Portugal), Nuno Cortesão, Iola Pinto, Margarida Dias, Isabel Teixeira

Abandon of the arousal index for continuous positive airway pressure prescription and refund decreases short-term adherence to the treatment
Giuseppe Liistro (Bruxelles, Belgium), Augustin Dermine

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

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

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

FOLLOW-UP OF OBSTRUCTIVE SLEEP APNEA TREATMENT: DIFFICULTIES FACED BY PRIMARY CARE UNITS
Alexandre Manuel Carvalho da Silva Almendra (Braga, Portugal), Cátia Pereira, João Carvalho, Paula Pinto, Cristina Bárbara

COMPLIANCE OF A NEW VIBRATIL DEVICE IN PATIENTS WITH POSTURAL SLEEP APNEA. Data not show.
Laura Hidalgo Armas (Santurdejo, Spain), José Cordero-Guevara, Joaquin Durán-Cantolla

Outcome of Mandibular Advancement Device (MAD) referrals following a clinician led dental assessment in patients with Obstructive Sleep Apnoea Syndrome (OSAS)
Akshay Dwarakanath (Wakefield (West Yorkshire), United Kingdom), Amanda Witton, Lesley Earnshaw, Angela Upson, Corraine Ledgway, Mohammed Khan, Anthony Johnson

Pre-congress content
Session 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, Pulmonary rehabilitation
Chairs: Holger Woehrle (Ulm, Germany), Sara Lundell (Uméa, Sweden)

Is Virtual Autonomous Physiotherapist Tele-rehabilitation Program in Chronic Obstructive Pulmonary Disease equal to Hospital-Based Pulmonary Rehabilitation?
Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Ole Hilberg, Anders Løkke, Elisabeth Bendstrup
Feasibility of an asthma app to monitor medication adherence
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rute Almeida, Rita Amaral, Ana Margarida Pereira, Carmen Vidal, Sara López Freire, Paula Mendoza Brea, Dario Antolin-Amérgio, Belén De La Hoz Caballero, Alicia Barra Castro, David Gonzalez-De-Olano, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipe Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Ana Arrobas, 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, Luís Taborda-Barata, Maria José Cália, Adelaide Alves, João Almeida Fonseca

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

What features do patients and clinicians ‘want’ in the future Internet-Of-Things (IoT) systems for asthma: a mixed method study
Chi Yan Hui (Edinburgh, United Kingdom), Brian McKinstry, Olivia Fulton, Mark Buchner, Hilary Pinnock

Patient engagement with an asthma app to improve inhaler adherence
Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rute Almeida, Rita Amaral, Ana Margarida Pereira, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipe Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Ana Arrobas, 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, Luís Taborda-Barata, Maria José Cália, Adelaide Alves, João Almeida Fonseca

Self-administration of biologics for severe asthma - development of an app - a qualitative study
Kristina Kock Hansen (Vejle, Denmark), Louise Ulrich, Celeste Porsbjerg, Anders Christiansen, Ole Hilberg

Wearable electrical impedance tomography for chest monitoring
Inez Frerichs (Kiel, Germany), Barbara Vogt, Josias Wacker, Rita Paradiso, Fabian Braun, Michael Rapin, Laura Caldani, Olivier Chételat, Norbert Weiler

A Patient Feedback Driven, Stacked Machine-Learning Approach to At-Home COPD Triage
Sumanth Swaminathan (New York, United States of America), James Morrill, Klajdi Qirko, Ted Smith, Nicholas Wysham, Botros Toro

Impact of smart digital therapy feedback, motivation and assistance on CPAP adherence: a randomized-controlled trial
Anne Gruenewald (, Germany), Ulrich Brandenburg, Ruediger Alshut, Matthias Schwaibold, Regina Schaefer, Alexander Grimm, Christian Franke

Preferences for chatbot applications delivering quality-of-life interventions in COPD patients and people with a smoking history
Dario Kohlbrenner (Zurich, Switzerland), Christoph S. Gross, Theresa Schachner, Christian F. Clarenbach

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, Bjoern Holzhauer, Gerald Bacher

Do technologies make a difference in adherence to treatment: instant messaging application use?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov, Mariia Shostatska

Blended care results in an improved adherence of an eHealth Platform by COPD patients
Cathelijne van Zelst (Rotterdam, Netherlands), Esther Van Noort, Niels Chavannes, Hans In T Veen, Marise Kasteley

A digital inhaler uncovering patterns of SABA use in asthma and COPD
Mark L. Levy (London, United Kingdom), Henry Chrystyn, Guilherme Safioti, Michael Depietro, Randall Brown, Tanisha Hill, Lena Granovsky, Michael Reich, Sinthia Bosnic-Anticevich

Mobile games increases knowledge, attitude and positive behaviors of the children with respiratory disorders and their families.
Kazi Raiyan Mahmud (, Bangladesh), Kazi Faisal Mahmud, Fatema Zannat, Mostafizur Rahman, Fatema Rafat, Kazi Faiyad Mahmud, Kazi Fahim Mahmud, Rumana Afroze, Nishat Jahan

Real-time monitored patient adherence to an eHealth self-management intervention in patients with COPD and heart failure
Joanne M. Sloots (Enschede, Netherlands), Job Van Der Palen, Mirthe Bakker, Michiel Eijsvogel, Gerard Linssen, Clara Van Ommeren, Monique Tabak, Tanja Effing, Anke Lenferink
An electronic alert to reduce excessive prescribing of short-acting beta2-agonists for people with asthma in East London: a retrospective case-control study using routine primary care data
Shauna McKibben (London, United Kingdom), Andy Bush, Mike Thomas, Chris Griffiths

RECEIVER trial: positive early experience and sustained patient engagement with a digital service model for COPD management
Anna Taylor (Cambridge (Cambridgeshire), United Kingdom), Rebecca Scott, Grace Mcdowell, Paul Mcginness, David Lowe, Chris Carlin

Use of online questionnaires, social networks and messengers for quick collecting epidemiological data among young people
Iliia Glivenko (Vinnitsa, Ukraine), Olha Yaroslavska, Anna Demchuk, Vitalii Poberezhets, Yuriy Mostovoy

COPD patient tele-monitoring using interactive questionnaires and electronic patient record
Vitaly Mishlanov (Perm, Russian Federation), Ksenia Bekker, Anastasia Katkova

Pre-congress content

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)

Evaluation of Smoking and Other Tobacco Product Habits of Ege University Faculty of Health Sciences Students: A cross-sectional Survey Study
Alev Gürgün (Bornova - Izmir, Turkey), Funda Elmas Uysal, Hur Hassoy, Zafer Güdük, Nazmiye Ctry, Isil Ergin, Gunay Anacak, Nurcan Buduneli, Murat Urhan, Volkan Karadağ, Batuhan Ata

Characteristics of hookah smokers according to their dual tobacco products 'cigarettes' use
Dilek Karadoğan (Rize, Turkey), Yağış Kanbay, Oğuzgür Onal, Deniz Say Şahin

Patterns of tobacco use among Spanish secondary school students
Natalia Pascual Martinez (Cordoba, Spain), Silvia Martin Bote, Maria Melgar Herrero, Cristina Gomez Rebollo, Cristina Villalba Moral, Rafael Castro Jimenez

Factors and concepts associated with the start of cigarette smoking in university students
Giovanni Garcia Castro (Pereira, Colombia), Angela Maria Giraldo Montoya

Use of digital technologies for evaluating prevalence of various types of nicotine usage among young people
Viktoriya Davydoa (Vinnitsa, Ukraine), Tetyana Shypovych, Anna Demchuk, Vitalii Poberezhets, Yuriy Mostovoy

Prevalence of Electronic-cigarette smoking in Thai college student
Chatuthanai Savigamin (Bangkok, Thailand), Jedsadakorn Jitwimungsanon, Thanapoom Rattananupong, Chanchai Sittipunt, Thitiwat Srirasarat

Electronic cigarette (ecig) and university students. Prevalence, beliefs and use characteristics.
Santiago Antonio Juarros Martinez (Simancas, Spain), Beatriz Villaescusa Gonzalez, Maria Isabel Munoz Diez, Belen Munoz Diaz, Eva Maria Rueda Domínguez, Milagros Del Olmo Chiches, Maria José Chourio Estaba, Lourdes Del Rio Sola

Relationship between cigarette advertising exposure, harmful tobacco knowledge and smoking status of the sixth grade elementary school students in Bandar Lampung, Indonesia.
Ritno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Marisa Anggraini, Hetti Rusmini, Franisca Sinaga, Siti Alya L.C Siti Alya L.C Mokoagow

Continuous effect of migrant crisis on smoking status among migrants
Monika Tushchevska Mitkovska (Kumanovo, North Macedonia), Deska Dimitrievska, 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), Unsath Athar, Tahseen Kazmi

Evaluation of smoking habits of parents with chronic lung and respiratory tract diseases
Setenay Akyuzluer Gunes (Ankara, Turkey), Gizem Ozcan, Fazilcan Zirek, Nazan Cobanoglu

Vaping: more than smoke and mirrors?
Nitika Kaushal (Bexleyheath (Kent), United Kingdom), Burhan Khan
Characteristics of prevalence and motivation for Smoking among schoolchildren of the Altai region.
Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester

Survey on smoking among students of the medical school of medicine & pharmacy in Agadir-Morocco
Hind Serhane (Marrakech, Morocco), Fatiha Bounoua, Khadija Aitnasser, Houda Moubachir

Investigation of nicotine delivery devices usage among adults in Ukraine
Artemii Bogomolov (Vinnytsia, Ukraine), 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 Migaoaou, Saoussen Cheikhimhamed, Maroua Ammar, Safa Ben Khaled, Jihen Ayeb, Rim Bouguzzi, Hiba Mosbel, Mohamed Aouina, Samah Joobeir, Naceur Rouatbi

Frequency and attitudes towards Heated Tobacco Products among medical students - preliminary results.
Paulina Majek (Katowice, Poland), Grzegorz Brożek, Mateusz Jankowski, Bartłomiej Nowak, Maciej Nowak, Piotr Nakiela, Andrzej Swinarew, Jan Eugeniuss 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  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, Rebeca 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 Concocreggi, Elena Zanardini, Alessandro Pini, Pietro Piovanelli, Guido Levi, Leonardo Pedroni, Manuela Ciarfaglia, Claudio Tantucci

Painting, ETS and building age as related to incidence of respiratory symptoms
Juan Wang (Beijing, China), Christar Janson, Rain Jogi, Bertil Forsberg, Thorarinn Gislason, Mathias Holm, Andrei Malinovschi, Vivi Schlunssen, Cecilia Svan, Carl 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

A mendelian randomization study of BMI and asthma exacerbations in children
Cristina Longo (Amsterdam, Netherlands), Susanne Vijverberg, 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 Pärkkää, 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), Shoaib Afzal, Børge G. Nordestgaard, Peter Lange, Jørgen Vestbo

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

### 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

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**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), Chair to be confirmed

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

- **Oral corticosteroid prescription in asthma: Swiss situation**
  Caroline Leuenberger (Zürich, Switzerland), Jörg D. Leuppi, Thomas Rothe, Anja Joehmann, Christian Clarenbach, Claudia Steurer-Stey, Florian Charbonnier, Hans-Werner Duchna, Pierre-Olivier Bridevaux, Vitaly Chicherov, Maria Korobeynikova, Stefan Wetzel, Gunther Pendl

- **Icaritin inhibited ovalbumin-induced airway inflammation in murine model**
  Dong Yao (Guilin, China), Bo Xiao, Guiming Zhou, Biwen Mo

- **Reslizumab: Efectiveness 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 Angel Tapia Del Pozo, Jesus Hernandez Hernandez

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

- **Diagnosis and therapy of asthma bronchiale in top athletes**
  Éva Seres (Budapest, Hungary), Nora Sydø, Gabor Horvath, Timea Kovats, Orsolya Kiss, Bela Mérkely, Veronika Muller

- **Budesonide/formoterol efficacy in “obese” asthma.**
  Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsybaliuk, Andrii Sidorov
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 Mastałerz-Migas, Edyta Zagrajek, Marek Ł Kowalski

Airway autoimmunity and response to a 14-day course of oral corticosteroids in patients with severe eosinophilic asthma
Alexander Silberbrandt (Hellerup, Denmark), Manali Mukherjee, Morten Hvidfeldt, Laurits Frøssing, Parameswaran Nair, Celeste Porsbjerg

ß2-adrenoceptor (ß2-AR) dysfunction in airway smooth muscle in severe asthma: possible role of inflammatory cytokines
Jameel Hakeem (Leicester, United Kingdom), Latifa Chachi, Fahad Alhadian, Michail Biddle, Omar Tliba, Peter Bradding, Yassine Amrani

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

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

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

Broncho-alveolar lavage procedure extract compounds from surrounding tissue
Erica Bäckström (Mölndal, Sweden), Brit-Marie Fihn, Teodor Erngren, Walter Lindberg, Lina Oqvist, Markus Fridén, Ken Grime

The effects of PGD2 and DK-PGD2 on features of airway remodeling in human airway epithelial cells and guinea pig lung slices
Siti Farah Rahmawati (Groningen, Netherlands), Vassiliki Verschut, Manon Woest, Huib Kerstjens, David Sandham, Reinoud Gosens, Loes Kistemaker

Progesterone-induced blocking factor as a potential therapeutic target for elderly women with asthma
Hyun Jae Shim (Seoul, Republic of Korea), Ji-Hyang Lee, Min Ju Pyo, Keun-Ai Moon, Sin-Jeong Kim, Jun-Pyo Choi, Hyouk-Soo Kwon, You Sook Cho

GB001 is a potent, insurmountable DP2 antagonist with long receptor residence time and extended pharmacodynamic effects
Sunil Sahdeo (San Diego, United States of America), Kristen Taylor Meadows, Sam Hoare, Terry Kenakin, Susan Murphy, Tomas Saltet-Cid, Hector Ortega, Gregory Opitek, Luisa Saltet-Cid, Laura Carter

GB001, a selective prostaglandin D2 receptor 2 antagonist, blocks signaling in the peripheral blood of healthy subjects
Gregory Opitek (San Diego, United States of America), Kristen Taylor Meadows, Eric Butz, Scott Sugden, Richard Aranda, Hector Ortega

Pre-congress content

Session 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)

Predictors of mortality and exacerbations across 34 years among adults with asthma – TRAIL Cohort
Oliver Djurhuus Tupper (Søborg, Denmark), Charlotte Suppli Ulrik
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<td>Respiratory symptoms as risk factors for mortality – the Nordic EpiLung Study</td>
<td>Helena Backman (Luleå, Sweden), Laxmi Bhatta, Linnea Hedman, Ben Brumpton, Ida Vähätalo, Paul G Lassman-Klee, Bright Nwaru, Xiao-Mei Mai, Sigrid Anna Vikjord, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Arnulf Langhammer</td>
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<td>Implications of different CT emphysema thresholds on COPD phenotypes</td>
<td>Christina Due Svendsen (Bergen, Norway), Kris Ostridge, Rune Nielsen, Eli Nordeide, Terje Larsen, Karel Kj Kiuiper, Tomas Mikal Eagan</td>
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<td>Risk factors for low forced vital capacity in the multinational BOLD study: An update</td>
<td>Andre F.S. Amaral (London, United Kingdom), Jaymini Patel, A. Sonia Buist, Peter Burney, On Behalf Of The Bold Collaborative Research Group</td>
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<td>Geo-economic variations in intraoperative ventilation management – insights from a worldwide prospective cohort study</td>
<td>Liselotte Hol (Haarlem, Netherlands), Sabrine Hemmes, Ary Serpa Neto, Marcus Schultz</td>
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<td>Incidence of osteoporosis and fragility fractures in asthma: a population-based matched cohort study</td>
<td>Christos Chalitsios (Nottingham, United Kingdom), Jaymini Patel, A. Sonia Buist, Peter Burney, On Behalf Of The Bold Collaborative Research Group</td>
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<td>Association between obstructive syndrome and mental disorder - The Pneumol ausPsyCoLo aus study</td>
<td>Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod</td>
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<td>Role and impact of chronic cough in obese individuals from the general population</td>
<td>Eskild Landt (Koege, Denmark), Yunus Çolak, Boerge G Nordestgaard, Peter Lange, Morten Dahl</td>
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<td>Women receiving hormone replacement therapy are at high risk of developing asthma</td>
<td>Erik Sören Halvard Hansen (Valby, Denmark), Kristian Aasbjerg, Amalie Lykkemark Møller, Elisabeth Gade, Christian Torp-Pedersen, Vibeke Backer</td>
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<td>Impact of abnormal body water distribution on prognostic of Chronic Obstructive Pulmonary Disease and heart failure patients</td>
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<td>Multimorbidity in Finnish and Swedish speaking Finns - association with daily habits and socioeconomic status - A Nordic EpiLung study</td>
<td>Heidi Andersén (Vaasa, Finland), Hannu Kankaanranta, Leena E Tuomisto, Päivi Piirilä, Anssi Sovijärvi, Arnulf Langhammer, Eva Rönmark, Bo Lundbäck, Lauri Lehtimäki, Pinja Ilmarinen</td>
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<td>Early life origins of lung ageing: A study of lung function decline the ECRHS and NFBC1966 cohorts</td>
<td>Cecilie Svanes (Bergen, Norway), Jorunn Kirkeleit, Trond Riese, 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, Shyamali Dharmage, Debbie Jarvis, Marjo-Riitta Jarvelin</td>
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<td>Long-term use of inhaled corticosteroids and the risk of type 2 diabetes in COPD</td>
<td>Mohamad Isam Saeed (Copenhagen C, Denmark), Josefin Eklöf, Imane Achir, Pradeesh Sivapalan, Howraman Meteran, Anders Lokke, Tor-Biering Sørensen, Filip Krag Knop, Jens-Ulrik Stæhr Jensen</td>
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<td>COPD phenotypes and 5-years mortality risk prediction: PALOMB Cohort</td>
<td>El-hassane Oualaaya (Mérignac, France), Maëva Zysman, Émilie Bertaud, Laurent Falque, Laurent Nguyen, Jean Michel Dupis, Marielle Sabatini, Alain Bernady, Annya Ozier, Cécilia Nocent-Ejaina, Christophe Roy, Frédéric Le Guillou, Emmanuel Monge, Mohammed Aliati, Anne Prudhomme, Laura Petrov, Marie Line Quinquenel, Mohammed Staali, Frederic Pilard, Marc Sapène, Julien Casteigt, Jean Moinard, Yannick Daoudi, Esther Iglesias, Élodie Blanchard, Julie Macey, Rémi Veillon, Xavier Demant, Claire Bon, Leo Grassion, Mathieu Mollard, Chantal Raherison-Semjen</td>
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<td>Depressive symptoms among patients with chronic obstructive pulmonary disease before and after smoking cessation - a Danish nationwide cohort study of 21 184 patients</td>
<td>Jakob Hedemark Vestergaard (København N, Denmark), Pradeesh Sivapaleen, Rikke Sørensen, Josefin Eklöf, Imane Achir Alispahic, Anna Von Bülow, Niels Seersholm, Jens-Ulrik Stæhr Jensen</td>
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<td>Longitudinal changes in appendicular skeletal muscle mass among asthma and COPD subjects: The Rotterdam Study</td>
<td>G. Elizabeth Benz (Rotterdam, Netherlands), Emmely W. De Roos, Katerina Trajanoska, Sara Wijnant, Marten Van Den Berg, Maria De Ridder, Lisa Van Der Burgh, Fjorda Koromani, Nicole S. Erlar, Ross Williams, Lies Lahousse, Katia Verhamme, M. Arfan Ikram, Bruno Stricker, Fernando Rivadeneira, Guy Brusselle</td>
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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, Toyohira Hirai, Hisako Matsumoto

Elevated cardiac troponin predicts 11-year mortality in COPD
Ulf Nilsson (Umeå, Sweden), Nicholas Mills, Helen Backman, Caroline Stridsman, Linnea Hedman, Eva Rönmark, Anders Blomberg, Anne Lindberg

Pre-congress content
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: James Seddon (London, United Kingdom), Chair to be confirmed

Incremental Yield of Xpert MTB/RIF Ultra over Xpert MTB/RIF in the diagnosis of extra-pulmonary tuberculosis
Devasaahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Deepa Shankar, Coelho Victor, Ebby Simon, Balamugesh Thangakunam

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?
Junyi Zhang (London, United Kingdom), Owais Kadwani, Charlotte Carter, Sundeep Ghuman, 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, Luís Vaz Rodrigues

Utility of pleural fluid glucose measurement in TB pleural effusions.
Owais Kadwani (London, United Kingdom), Junyi Zhang, Charlotte Carter, Sundeep Ghuman, Ronan Breen, Liju Ahmed

Oesophageal TB secondary to mediastinal lymphadenitis: a London tertiary centre experience.
Ananna Rahman (Essex, United Kingdom), Hannah Gordon, Catherine Dominic, 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

Influence of HIV infection on spectrum of extrapulmonary tuberculosis
Ekaterina Kulchavenya (Novosibirsk, Russian Federation)

Expression of the PDCD1 gene to determine active tuberculosis infection in children and adolescents with latent TB infection
Mikhail Vladimirsky (Moscow, Russian Federation), Andrey Elov, Valentina Aksenova, Kirill Gerasimov

Acceptability of a new child-friendly dispersible tablet for drug-sensitive pulmonary tuberculosis in children
Aziza Pakhlavonova (Moscow, Russian Federation), Valentina Aksenova, Nadezhda Klevno, Alexey Kazakov

Tuberculosis exposure in a group of toddlers - what is the best strategy to prevent infections?
Folke Brinkmann (Bochum, Germany), Stefanie Dillenhöfer, Anne Schlegenhof

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 Kulchavenya, 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, Christiane Mello Schmidt, Selma Maria De Azevedo Sias, Claudete Aparecida Araújo Cardoso
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, Yurii Mizernitsky

Non tuberculous mycobacterial pulmonary disease in the elderly

Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Imanol Gonzalez Muñoz, Sandra Pedrote Tejada, Beatriz Gonzalez Quero, Elena Garay Llorente, Patricia Iraurgui Arcarazo, Rafael Zalacain Jorge

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

**E-poster session: Interventional pulmonology: unity in diversity**

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<td>Endoscopy and interventional pulmonology</td>
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#### Late Breaking Abstract - Microwave ablation via a flexible catheter for the treatment of nonsurgical peripheral lung cancer: a pilot study

Jayyuan Sun (Shanghai, China), Fangfang Xie, Junxiang Chen, Xiaoxuan Zheng

#### A modified staged treatment algorithm using the AeriSeal System

T. David Koster (GRONINGEN, Netherlands), Dirk-Jan Slebos, Felix Herth, Karin Klooster, Ralf Eberhardt, Ralf-Harto Huebner, Arschang Valipour

#### Metered Cryospray Modulates Bronchial Epithelial Gene Expression in Patients with Chronic Obstructive Pulmonary Disease

Christopher M Orton (London, United Kingdom), Justin L Garner, Tacita A Shah, Cielito Caneja, Kian F Chung, Pankaj K Bhavsar, Pallav L Shah

#### Endobronchial Valves: First french multicenter retrospective study on the 2 steps approach

Thomas Egenod (Limoges, France), Nicolas Guibert, Yoann Ammar, Romain Kessler, Beneficte Toublanc, Nicolas Favrolt, Amandine Briault, Hervé Dutau, Frederic Wallyn, Armelle Marceau, Laurent Cellerin, Samy Lahkar, Julien Dutilh, Jean-Michel Vergnon, Matthieu Dusselier

#### CT-approximated perfusion is comparable to nuclear perfusion imaging

T. David Koster (GRONINGEN, Netherlands), Ebrahim Hazrati, Eva M. Van Rikxoort, Karin Klooster, Jean-Paul Charbonnier, Dirk-Jan Slebos

#### Implementing bronchoscopic lung volume reduction using one-way endobronchial valves in a Dutch university hospital, retrospective real-life outcomes at 3 months.

Rein Posthuma (Maastricht, Netherlands), Anouk Vaes, Kim Walraven, Geertjan Wesseling, Emiel Wouters, Lowie Vanfleteren

#### Should we perform surgical lung biopsy when transbronchial cryobiopsy provides unclassifiable interstitial pneumonitis in a patient with diffuse interstitial lung disease?

Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Esmaeil Idani, Forouzan Mohammadi, Shirin Izadi, Behdad Boroofeh, Aptin Maboudi, Behnaz Jahanbin, Sahar Defaeec, Negar Eftekhar

#### 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

#### Transbronchial lung cryobiopsy (TLCB) in morphological and PCR diagnosis of tuberculosis and sarcoidosis

Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilyev, Irina Tabanakova, Sultan Gasanmagomedov, Gleb Beliaev, Tatiana Novickaya, Viacheslav Zhuravlev, Piotr Yablonskii

#### Transbronchial Lung Cryobiopsy (TBLC) for Interstitial Lung Disease (ILD) can be safely done in patients with multiple medical comorbidities

Harprasad Kalpakam (India), Rajani Bhat, Sameer Bansal, Pooja Bajaj, Ravindra Mehta

#### Instant on site pathology of cryobiopsies in interstitial lung disease

Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laura Van Huizen, Teodora Radonic, Peter Bonta, Marloes Groot, Jouke Annema

#### 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
Pre-congress content

Session 00:00 - 23:59

E-poster session: Air pollution as a cause of respiratory disease

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

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

**Chairs:** Mulubirhan Assefa Alemayohu (Verona, Italy), Rafael E. de la Hoz (New York, United States of America)

- **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 (Blagoveschensk (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 adult Pakistani population: A cross sectional survey**
  Unaib Rabbani (Buraidah, Saudi Arabia), Shama Razzak, Peter Burney, Asaad Ahmed Nafees

- **Link between fine particulate matter in ambient air and hospital emergency services.**
  Alexander Simidchiev (Sofia, Bulgaria), Carolina Ljubomirova, Alexandra Vodenicharova, Todor Kundurzhiev, Nevena Tzacheva

- **Exposure to PM2.5 and PM2.5-bound PAHs and its influence on respiratory tract function and cytokines concentrations changes in healthy adults.**
  Artur Badya (Warszawa, Poland), Andrzej Chciałowski, 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 Badya (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 Izquierdo, 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 Joamidis, Guenter Weiss, Judith Loefler-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

Effects of fresh and aged soot particles on respiratory health impairment
ZAIRA LENI (BERN, Switzerland), Michaela Ess, Alejandro Keller, Anna-Karin Larsson-Callerfelt, Konstantina Vasilatou, Marianne Geiser

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

RURAL AND URBAN ASTHMA: ARE THEY DIFFERENT?
Christian Eduardo Romero Mesones (Barcelona, Spain), Galo David Granados Rosales, Maria Jesús Cruz Carmona, Ihigo Ojanguren Arranz, Miquel De Homdedeu Cortes, Silvia Sánchez Diez, Donghai Ma, Xavier Muñoz Gall

Association between long standing heavy traffic exposure and respiratory symptoms and airway inflammation in older adults and elderly
Regiani Carvalho Oliveira (São Paulo (SP), Brazil), Luis Fernando Amato-Lourenço, Pamela Souza Almeida, Bianca B.M. Garcia, William K.M. Vieira, Martha Cristina Motta Godinho-Netto, Maria E. Carretero, Thais Maud, Paulo H. Nascimento Saldiva

Pre-congress content
Session 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)

- Effects of smoking cessation on spirometry in mild to moderate COPD
  Sourav Datta (Hooghly, India), Susmita Kundu, Falguni Mandi

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

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

- 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)

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

- The prevalence of respiratory symptoms and smoking among young people in Moscow
  Tatiana Bilichenko

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

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

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

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

Smoking habits in high cardiovascular risk patients
Roxana Maria Pleava (Timisoara (Timis), Romania), Stefan Frent, Carmen Ardelean, Svetlana Mosteoru, Dan Gaita, Stefan Mihaiutca

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

Systemic inflammation in COPD in relation to smoking status
Touil Imen (Mahdia, Tunisia), Touil Imen, Keskes Boudawara Nadia, Baccari Mohamed Amine, Nemsi Elaa, Romdhani Raja, Ben Rhouma Chaima, Knani Jalel, Bousoffara Leila

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

Epidemiology, risk factors, and clinical parameters of non-smoker COPD patients.
ANUJ KUMAR PANDEY (Lucknow, India), Ajay Kumar Verma, Surya Kant, Rakesh Kumar Dixin, Arpita Singh, Umesh Pratap Singh, Ved Prakash, Shyam Chand Chaudhary

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

Smoking in Obstructive Sleep Apnea Syndrome: gender differences
Athanasia Pataka (Thessaloniki, Greece), George Kalamaras, Seraphim Kotoulas, Evaggelos Chatzopoulos, Ioanna Grigoriou, Nikolaos Chavouzis, Despoina Ioannidou, Katalin Fekete, Paraskevi Argyropoulou

Smoking and alcohol consumption during pregnancy. The situation in Greece
Paraskevi Katsaounou (Athens, Greece), Athina Diamanti, Katerina Lykeridou, Vasilios Raftopoulos

Pre-congress content

Session 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)

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

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

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

Applying reference equations for 6-minute walking test in COPD and ILD patients
Daniel Oliveira Reis (Ovar, Portugal), Pedro Oliveira, Joana Gomes, Ricardo Lima, Miguel Guimarães, Inês Ladeira
Significance of brain network on physical activity among obstructive lung disease
Tsunahiko Hirano (Ube, Japan), Tomohiro Donishi, Syun Takahashi, Kazuyoshi Suga, Keiko Doi, Taiga Tsukamoto, Keita Murakawa, Ayumi Chikumoto, Yuichi Ohtera, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kagukawa, Kazuto Matsunaga

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

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

Comparative Efficacy of Long-Acting Muscarinic Antagonists in COPD: Real Life Study
Edin Jusufovic (Tuzla, Bosnia and Herzegovina), Vladimir Zugic, Mitja Kosnik, Mirjana Jovanovic Drvenica, Sanja Hromis, Jasmina Nurkic, Mona Al-Ahmad, Ljiljana Bulat Kardum, Rifat Sejinovic, Besim Pnjavorac, Azra Jusufovic

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

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

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

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

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

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

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

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

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

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

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

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

E-poster session: Mechanistic insight into lung injury and repair

Disease(s): Airway diseases  Respiratory critical care  Thoracic oncology  Interstitial lung diseases  Pulmonary vascular diseases
Method(s): Transplantation  Cell and molecular biology  Imaging  Physiology  General respiratory patient care  Pulmonary function testing
Chairs: Jonathan R. Baker (London, United Kingdom), Melanie Konigshoff (Denver, United States of America)

Elastin-like-recombinamer cryogel as a platform for lung regeneration
Zackarias Söderlund (Lund, Sweden), Linda Elowson Rendin, Solmaz Hajizadeh, Emil Tykesson, Arturo Ibáñez-Fonseca, José Carlos Rodriguez-Cabello, Lei Ye, Gunilla Westergren-Thorsson
Feeder-free organoid-based expansion of primary alveolar cells: application of Organs-on-Chips technology to investigate the effect of long-term cyclic stretch
Anne M. van der Does (Leiden, Netherlands), Sander Van Riet, Annemarie Van Schadewijk, Padmini P.S.J. Khedoe, Jan Stolk, Geraldine A. Hamilton, Pieter S. Hiemstra

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

Resolvin E3 reduces profibrotic factor production from macrophages leading to tissue homeostasis
Masakiyo Yatomi (Maebashi, Japan), Yasuhiko Koga, Haruka Saito, Makiko Sato, Hiroaki Tsurumaki, Kenichiro Hara, Noriaki Sunaga, Toshitaka Maeno, Hiroyuki Ikeda, Hayato Fukuda, Shouta Arai, Koichi Fujiwara, Satoshi Shuto, Takeshi Hisada

Overexpression of fatty acid synthase attenuate bleomycin induced lung injury/fibrosis via restoring mitochondrial dysfunction
Sung Woo Park (Bucheon, Republic of Korea), Soo Taek Uh, Do Jin Kim, An Soo Jang, Aee Rin Baek, June Hyuk Lee

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

Low-level laser boosts extracellular matrix cues and enhances acellular lung scaffold recellularization
(, ), Aurileia Aparecida De Brito, Andressa Daronco Cereta, Luis Vicente De Oliveira, Ana Paula Ligeiro De Oliveira, Renata Kelly Da Palma

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

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

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

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

Potential biomarkers in patients with chronic obstructive pulmonary disease (COPD)
George Samanidis (Athens, Greece), Konstantinos Perreas, Christos Verikocos, Konstantinosos Kontzoglou, Despina Perrea, Panagiotsis Demertzis, Georgia Hardavella

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

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

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

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

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

Duration of home oxygen therapy and postnatal catch-up growth in bronchopulmonary dysplasia
Manisha Rampulu (Leicester (Leicestershire), United Kingdom), Anna Poghosyan, Dushyant Batra, Andrew Prayle, Jayesh M Bhatt
**Gene expression and cellular profiling in a rat bleomycin model of drug-induced interstitial lung disease (DIILD)**
Irma Mahmutovic Persson (Lund, Sweden), Nina Fransén Pettersson, Jian Liu, Hanna Falk-Håkansson, Lars E. Olsson, Karin Von Wachenfeldt

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

### Pre-congress content
#### Session 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)

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

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

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

#### 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

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

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

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

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

#### 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-moasseeb (CLEETHORPES, United Kingdom), Victoria Worrall, Philip Lawrence, Ian Sinha

#### Use of relievers in patients with severe asthma on biologic therapy - a multidisciplinary approach
Mariana Rezelj (Stahovica, Slovenia), Peter Kopač, Irena Počevavšek, Jana Tršan, Tina Morgan, Sabina Škrgat

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

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

#### 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
### 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

### 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

### 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

### 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

### 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

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**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)

- **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 Bjørner, Gunilla Westergren-Thorsson, Ellen Tuveson, Anna-Karin Larsson Callerfelt

- **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

- **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

- **Hedgehog signalling crosstalks orchestrate human lung development**
  - Randa Belgacemi (bezannes, France), Soula Danopoulos, Gaëtan Deslée, Valerian Dormoy, Valerian Dormoy

- **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

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

- **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

- **The increase in surface FXYD5 by influenza-A virus is mediated through ERM-proteins phosphorylation and contributes to epithelial barrier dysfunction during influenza infection**
  - Laura Dada (Chicago, United States of America), Elmirah Tokhtaeve, Pritin Soni, Patricia Brazee, Lynn Welch, Whitaker Cohn, Julian Whitelegg, Jacob Szajdier, Olga Vagin

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

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

**LSC - 2019** - Association of extracellular Hsp70 with the severity of chronic obstructive pulmonary disease
**Hypercapnia impairs alveolar type 2 cell self-renewal and promotes differentiation towards an AT2-transitional cell phenotype**

Laura Dada (Chicago, United States of America), Patricia Brazee, Lynn Welch, Natalia Magnani, Diego Celli, Ziyou Ren, Vitalii Kryvenko, Marina Casalindo-Matsuda, Masahiko Shigemura, Istvan Vadasz, Alexander Misharin, Cara Gottardi, Scott Budinger, Jacob Sznajder

**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, Istvan Vadasz

**Levels of oxidised mitochondria in BAL macrophages in fibrotic ILDs.**

Eirini Vasarmidi (Heraklion (Crete), Greece), Eliza Tsitoura, Semeli Mastrodemou, Athina Trachalaki, Nikolaos Tzanakis, Katerina Antoniou

**Modelling IPF-associated chronic cough: role for oxidative stress?**

Jonathan H. A. Miles (London, United Kingdom), James W Pinkerton, Sara J Bonvini, Eric Dubuis, Michael A Wortley, Silvia Pontis, Marcello Trevisani, Gino Villetti, Riccardo Patacchini, Philip L Molyneaux, Toby M Maher, Mark A Birrell, Maria G Belvisi

**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

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


**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 Brzeszczyńska, Lorcan Mcgarvey, Keith Thornbury, Carl S. Goodyear, John C. Lockhart, Gary J. Litherland

**Nrf2-regulated chaperon-mediated autophagy is involved in apoptosis modulation in COPD pathogenesis.**

Yusuke Hosaka (Tokyo, Japan), Jun Araya, Yu Fujita, Kazuya Tsubouchi, Tsukasa Kadota, Masahiro Yoshida, Shunsuke Minagawa, Hiromichi Haru, Hironori Kawamoto, Naoaki Watanabe, Akihiro Ito, Akihiro Ichikawa, Nayuta Saito, Takanori Numata, Kazuyoshi Kuwano

**Lipocalin-2: a biomarker potentially associated with predisposition to COPD**

Natalia El-Merhie (Borstel, Germany), Martin Wolff, Clemens Ruppert, Andreas Günther, Philip Hansbro, Torsten Goldmann, Susanne Krauss-Etschmann

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**E-poster session: Novel molecular markers and targets for asthma phenotypes**

**Disease(s):** Airway diseases

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

**Chairs:** Janette K. Burgess (Groningen, Netherlands), Chair to be confirmed

**Effect of BPIFA1 replacement on allergen-induced airway hyperresponsiveness**

( ), Jada Frisbee, Corey Jania, Camryn Kellogg, Austin Hoke, Jennifer Adouli, Hong Dang, Robert Tarran, Matthew Redinbo, Julianne Huang

**Airway gene expression identifies subtypes of Type 2 inflammation in severe asthma**

Laurits Frøssing (Copenhagen V, Denmark), Alexander Silberbrandt, Anna Von Bülow, Ditte Kjærsgaard Klein, Marcus Ross Christensen, Vibeke Backer, Kathrine Baines

**Heat induced HSP-70 and -90 secretion by bronchial epithelium reduces airway wall remodeling in severe asthma**

Lei Fang (Hefei (Anhui), China), Junling Li, Eleni Papakonstantinou, Desiree Schumann, Michael Tamm, Daiana Stolz, Michael Roth

**CD6 is expressed on human airway and blood innate lymphoid cells (ILCs) and is upregulated by epithelial alarmins IL-33 and TSLP**

Taylor Doherty (La Jolla, United States of America), Jana Badrani, Kellen Cavagnero, Cherie Ng, Jeanette Ampudia, Stephen Connelly, Pragnya Desai, Cindy Koziol-White, Reynolds Panettieri, Davide Broide, Richard Kurten
Airway hyperresponsiveness in offspring from mothers with allergic airway inflammation during pregnancy is muscarinic receptor and ADAM33 dependent.

Hans Michael Haitchi (Southampton (Hampshire), United Kingdom), Marieke Wandel, Elizabeth R Davies, Joanne F C Kelly, Stephen T Holgate, Donna E Davies

BPIFA1 expression in asthmatics

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

Circadian rhythmicity of sphingolipids in allergic asthma

Ran Wang (Hefei (Anhui), China), Robert Maidstone, David Ray, Anna Nicolaou, Alexandra Kendall, Hannah Durrington

Investigating the effects of interleukin-33 on rhinovirus A induced changes in asthmatic bronchial epithelial cells

Rebecca M Cooper (Nottingham, United Kingdom), Michael A Portelli, Marco Londei, Christopher E Brightling, Dominick Shaw, Simon R Johnson, David J Cousins, Ian Sayers

Role of microRNAs in regulation of T17-driven airway epithelial barrier dysfunction

Elisabeth Ax (Gothenburg, Sweden), Henric Olsson, Cecilia Lässer, Zala Jevnikar, Madeleine Rådinger

MicroRNA profiling in bronchial biopsies of asthma patients

Mirjam P. Roffel (Groningen, Netherlands), Ilse M. Boudewijn, Jos Van Nijnatten, Corneel J. Vermeulen, Antoon J.M. Van Oosterhout, Karen Affleck, Ken R. Bracke, Tania Maes, Irene H. Heijink, Corry-Anke Brandsma, Maarten Van Den Berge

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The activity of fatty acids desaturases in mild and moderate asthma

Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Novgorodtseva, Marina Antonyuk

Periostin and TSLP a potential crosstalk in obstructive airway diseases

Patrycja Nejman-Gryz (Warszawa, Poland), Katarzyna Górska, Magdalena Paplińska-Goryca, Małgorzata Provobszcz, Rafał Krenke

The downstream effects of the 17q12-21 asthma region. Is functional splicing of GSDMB the explanation?

Tessa Kole (Groningen, Netherland), C.J. Vermeulen, M.E. Ketelaar, R Buls, G.H. Koppelman, W. Timens, V. Gurban, H.A.M. Kerstjens, M.C. Nawijn, M. Van Den Berge

Extracellular DNA traps in sputum from severe asthma patients

Yanaika Sharl Sabogal Piñeros (Amsterdam, Netherlands), Barbara Dierdorp, Tamara Dekker, Els J. M. Weersink, Rene Lutter

Sphingosine-1-phosphate as a key inducer of epithelial-mesenchymal transition in asthmatic airways

Fiorentina Roviezzo (Neaples (NA), Italy), Rosalinda Sorrentino, Giuseppe Spaziano, Bruno D’Agostino, Giuseppe Cirino

Bronchial challenge with D. pteronyssinus changes the ratio of blood eosinophil subtypes and their biological properties in allergic asthma patients

Andrius Januskevicius (Kaunas, Lithuania), Egle Jurkeviciute, Ieva Janulaitiene, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaita Zukauske, Jolita Palacionyte, 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 Rönberg, David Fuchs, Johan Kolmert, Mats Hamberg, Barbro Dahlén, Craig E Wheelock, Sven-Erik Dahlén, Gunnar Nilsson

Pre-congress content Session 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), Chair to be confirmed

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

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

Effectiveness of an educational intervention in order to improve adherence in COPD and asthma ambulatory patients.
Juan Alcantara Fructuoso (Murcia, Spain), Juan Miguel Sánchez Nieto, Irene Fernández Muñoz, Mercedes 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 Dmytryiev

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

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

Lung deposition of two bronchodilators in subjects with (COPD) when administered via standard jet nebulizer or Handihaler® using functional respiratory imaging (FRI).
Edmund Moran (South San Francisco, United States of America), Glenn Crater, Jonathan Ward, Dennis Belmans, Cedric Van Holsbeke

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

Lung function evaluation and patients’ satisfaction with Elepnerhaler® device in Greek COPD patients with =1 comorbidity versus patients without comorbidities-AELOS study.
Ioanna-Loutsetela Markou (Pikermi, Greece), Stavros Tryfon, Evaggelia Tsikrika, Georgios Krommida, 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 Annunziata, 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 Vleek

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 (Alvsjö, Sweden), Priya Thind, Mikaela Qvarfordt, Magnus Svartengren, Martin Anderson

Feasibility, compliance and effects of a Mindfulness program on COPD patients
Saída Bensliman (Brussel, Belgium), Vincent Ninane

Compliance of pharmacotherapy with GOLD-guidelines: a longitudinal study in patients with COPD
Matteo Bradicich (Zurich, 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 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: Galina P. Orlova (St. Petersburg, Russian Federation), Chair to be confirmed.

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**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 Sapykin, Ilya Shpagin, Olga Kotova, Evgeniya Logashenko, Aliyfa Tsygankova, Galina Kuznetsova, Natalya Kamneva, Ekaterina Anikina, Dmitriy Gerasimenko

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**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 Krichel, Kathrin Schmidt, Thomas Kraus, Christian Martin, Peter Brand

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

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**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

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

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**Breathing pattern disorder masquerading as occupational asthma**
Johanna Feary (London, United Kingdom), Julie Cannon, Paul Cullinan

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**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

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**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

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

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

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

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

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

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

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

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**Peculiarities of pulmonary alveolar proteinosis (PAP) due to exogenous factors**
Galina P. Orlova (St. Petersburg, Russian Federation), Aleksandra A. Speranskaya, Ivyetta V. Dvorakovskaya
Bilateral pneumothorax in silicosis patients, report of 14 cases
Tarek Djenfi (Batna, Algeria), Hamoud Souad, Djebbar Abdelmadjid

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

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

E-poster session: Paediatric asthma

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

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

Chairs: Nicola Ullmann (Roma (RM), Italy), Christiane Lex (Goettingen, Germany)

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

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

Use of a novel Bayesian borrowing statistical method to assess efficacy of mepolizumab in adolescents
Nicky Best, Robert Price, Isabelle Pouliquen

Exercise-induced bronchospasm in asthmatic Children. FENO and Body Mass Index relationship
Magdalena Vocos, Carlos Velasco Suarez, Marcela Roque, Doris Primrose, Anahi Kruger, Gabriela Andrade, Juan Manuel Figueroa

Endothelial dysfunction in children and adults with asthma - combined diagnostic approach
Marcela Kreslova (Plzen - Lochotin, Czech Republic), Aneta Sýkorová, Olga Kirchnerová, Petr Jehlička, Ladislav Trefil, Josef Sýkora

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

Clinical and Functional State of Asthmatic Children: Impact of Overweight-Obesity and Sleep Disordered Breathing
Gabriela Andrade, Anahi Kruger, Doris Primrose, Magdalena Vocos, Carlos Velasco Suarez, Marcela Roque, Juan Manuel Figueroa

Prevalence of vitamin D deficiency in children with asthma. Multicenter study.
Elena Kondratyeva (Moscow, Russian Federation), Olga Zaytseva, Evelina Lokshina, Svetlana Zaytseva

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

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

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

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

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

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

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

Changes in the microcirculatory system of children with bronchial asthma
Veronika Denisova (Moscow, Russian Federation), Natalia Geppe, Natalia Kolosova, Anita Denisova, Irina Grebeneva
Assessment of validity and efficacy of a PROM in preschool wheeze (Wheeze and me assessment tool)
Heidi Makrinioti (Athens, Greece), Alice E.M. White, Nour El-Hadi, Polly Robinson, Niamh McLaughlin, Mando Watson, Andrew Bush, Dougal Hargreaves

The annual change in prognosis for asthma in elementary school is associated with that of mean air pollutants thereafter
Hiroshi Odajima (Fukuoka, Japan), Toshisaki Kawano, Yoko Murakami, Hiroshi Matsyzaki

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

Clinically meaningful medium-term variability of fractional exhaled nitric oxide in a UK paediatric cohort
Ran Wang (Hefei (Anhui), China), Lesley Lowe, Angela Simpson, Clare Murray, Stephen Fowler

Pre-congress content

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), Chair to be confirmed

Lymphocyte responses to Mycobacterium tuberculosis and Mycobacterium bovis are similar between BCG-vaccinated patients with cystic fibrosis and healthy controls
Renan Mauch (Campinas (SP), Brazil), Paulo Cesar Alves, Carlos Emilio Levy, José Dirceu Ribeiro, Antonio Fernando Ribeiro, Niels Hoiby, Marcus Tadeu Nolasco Da Silva

Targeted exhaled breath analysis for detection of Pseudomonas aeruginosa in cystic fibrosis patients
Renate Kos (Soest, Netherlands), Paul Brinkman, Anne H Neerincx, Tamara Paff, Marije G Gerritsen, Ariane Lammers, Aletta D Kranevelde, Harry G M Heijerman, Jane C Davies, Christof J Majoer, Els J Weersink, Peter J Sterk, Eric G Haarman, Lieuwe Bos, Anke H Maitland-Van Der Zee

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

Clinics of Cystic Fibrosis Patients with Unusual Bacteria Isolated from Respiratory Cultures
Dilber Ademhan Tural (Ankara, Turkey), Beste Ozscezen, Birce Sunman, Gulsen Haziroglu, 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
Vassily Shmarin (Moscow, Russian Federation), Daria Pukhalanskaya, 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
Huseyin Hakan Mursaloglu, Can Akin, Cansu Yilmaz, Pinar Ergenekon, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Aysegul Karahasan, Bulent Karadag

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

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

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

Use of BIOFIRE® Pneumonia Panel Plus on sputum from patients with Cystic fibrosis or PCD
Philip Koliopoulos (Mainz, Germany), Julius Jurak, Sebastian Schlotter, 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), Svitolana Ilchenko, Anastasia Filatovska

ERS 2020 International Congress
DETAILED PROGRAMME
MONDAY 24 AUGUST, 2020
### 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 Yılmaz Yegit (İstanbul, Turkey), Pinar Ergenekon, Hakan Mursaloglu, Gamze Tastan, Burcu Suzer Uzunoglu, Yasemin Goldemir, Ela Erdem Eralp, Nurcan Duman, Aysegul Karahasan, Fazilet Karakoc, Bulent Karaday

### 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 Brodlic, 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
George Tetz (, Russian Federation), Kristina Kardava, Tatyana Gembskaya, Maria Vecherkovskaya, Victor Tetz

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### E-poster session: The multiple facets of pulmonary rehabilitation and chronic respiratory care

#### Disease(s):
- Airway diseases
- Respiratory critical care
- Interstitial lung diseases
- Pulmonary vascular diseases

#### Method(s):
- Pulmonary rehabilitation
- Pulmonary function testing
- Physiology
- General respiratory patient care
- Public health

#### Chairs:
Beatriz Abascal Bolado (Santander, Spain), Chair to be confirmed

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<td>Impact of comorbidities on the deterioration of skeletal muscle dysfunction among COPD patients</td>
<td>Vitalii Poberezhets (Vinnytsia, Ukraine), Szymon Skoczynski, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobiczuk, Yurii Mostovoy, Adam Barczyk</td>
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<td>Evaluation of quadriceps muscle function in patients with moderate to severe COPD</td>
<td>Maria 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</td>
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<td>Barriers towards physical activity in COPD: a quantitative cross-sectional, questionnaire-based study</td>
<td>Sajitha Sophia Sriharan (Aarhus V, Denmark), Elisabeth Bomhoff Østergaard, Maria Elkjaer, Louise Sand, Ole Hilberg, Sören Helbo, Anders Løkke</td>
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<td>Exploring beliefs of Pulmonary Rehabilitation modes of delivery</td>
<td>Amy Barradell (Leicester (Leicestershire), United Kingdom), Michael Larkin, Sally Singh</td>
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<tr>
<td>Effort tolerance and effectiveness of pulmonary rehabilitation in COPD patients with varying degrees of dyspnea during ADL</td>
<td>Mara Paneroni (Mazzano (BS), Italy), Laura Bertacchini, Carla Simonelli, Alberto Malovini, Bruno Balbi, Maria Aiani, Piero Ceriana, Antonio Spanevello, Claudio Fracchia, Mauro Maniscalco, Giacomo Corica, Nicolina Ambrosino, Michele Vitacca</td>
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<td>Walking assessments as the predictor of acute respiratory failure in the interstitial lung disease patients.</td>
<td>Ryosuke Hirabayashi (Kobe, Japan), Yusuke Takahashi, Kazuma Nagata, Yosuke Wakata, Yusuke Shimada, Yuri Shimada, Megumu Osaki, Atsushi Matsumashi, Kazutaka Hosoya, Yuki Sato, Atsushi Nakagawa, Ryo Tachikawa, Keisuke Tomii</td>
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<td>Effect of pulmonary rehabilitation on exercise tolerance and functional class in patients with COPD and heart failure</td>
<td>Manuel Abraham Gómez Martínez (Mexico City, Mexico), Leslie Verdeja Vendrell, Dulce Gonzalez Islas, Arturo Orea Tejeda, Martha Elena Quintero Ramirez, Rocio Nayeli Sanchez Santillan, Susana Galicia Amor, Juan Carlos Garcia Hernández, Esperanza Trejo Mellado, Itzel Ameaylli Sandoval Sánchez, Oscar Ulbaldo Martínez Reyna, Yael Ramiro Gastelum Ayala, Nathalie Martinez Luna, Ilse Pérez García, Valeria Ariadna Martinez Vazquez</td>
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<td>Are the gains due to pulmonary rehabilitation in idiopathic pulmonary fibrosis and other interstitial lung diseases the same?</td>
<td>Ipek Ozmen (süreyyapaşa gh, Turkey), Elif Yildirim, Meral Karakış, Murat Öztürk, Riüya Aydıner, Emre Sahal</td>
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<td>Three-year observation on pedometer intervention to improve daily physical activity and QOL in patients with stable COPD</td>
<td>Yuko Sano (Tokyo, Japan), Rokuro Matsuoka, Yoko Sato, Shinobu Kimura, Shyoji Mihara, Hajime Kurosawa</td>
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<td>Personality traits, physical activity and sedentary behaviors in patients with chronic pulmonary diseases</td>
<td>Pauline Caille (LODEVE, France), Yannick Stephan, Nelly Héraud</td>
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<td>Effects of a respiratory rehabilitation program over pulmonary hypertension (PH) and other right ventricular function measurements in a chronic obstructive pulmonary disease (COPD) population</td>
<td>Cristian Tiano (Donostia-San Sebastian, Spain), Itxaso Sayagó Reza, Jaime Navarro, Luis Sollet</td>
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Home-based fall prevention for older adults with COPD: a feasibility study
Marla Beauchamp (Toronto (ON), Canada), Cindy Ellerton, Dina Brooks, Roger Goldstein, Stuart Pugsley, Julie Richardson, Diana Hatzoglou

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

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

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

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

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

50% of the physiological benefit of training during Pulmonary Rehabilitation is achieved after only a few sessions.
Martine Favre (France), Bernard Aguilaniu, Jonathan Levesque, Frederic Herenght, Christophe Brosson, Jean Marie Grosbois, Alain Bernady, Antoine Bender, Pascale Surpas, Antoine Guerder, Pei Zhi Li, Anestis Antoniadis, Thomas Similowski

HEART VARIABILITY IN THE PRESENCE OF PSYCHOLOGICAL STRESS AND QUALITY OF LIFE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez-Hernández, Laura Arély Martínez-Bautista, Karen Aide Santillán-Reyes, Guadalupe Lizziebeth Luna-Rodríguez, Dulce González-Islas, Arturo Orea Tejeda

The effectiveness of pulmonary rehabilitation in patients diagnosed with interstitial pulmonary fibrosis
Elif Özarı Yıldırım (Istanbul, Turkey), Ipek Ozmen, Meral Karakıs, Murat Ozturk, Emre Sahal, Ruya Aydı'n, Reyhan Yıldız, Huriye Berk Takır, Tulin Sevım

Pre-congress content
E-poster session: Biomarkers and mechanistic aspects of idiopathic pulmonary fibrosis
Disease(s) : Interstitial lung diseases
Method(s) : Cell and molecular biology Imaging General respiratory patient care Epidemiology Physiology Pulmonary function testing
Chairs : Bruno Crestani (Paris, France), Antje Prasse (Hannover, Germany)

Increased monocyte count and red cell distribution width represent negative prognostic markers in patients with Idiopathic Pulmonary Fibrosis.
Theodoros Karampitsakos (Athens, Greece), Sebastiano Torrisi, Katerina Antoniou, Evangelos Bouros, Ioanna Korbila, Effrosyni Manail, Eirini Vasarmidi, Despoina Papakosta, Kelly Domvri, Zoe Daniil, Ilias Dimeas, Paraskevi Kirou, Ilias Papanikolaou, Eleni Bibaki, Katerina Markopoulou, Georgia Kounti, Eirini Tsapakidou, Efthymia Papadopoulou, Spyridon Papiris, Demosthenes Bouras, Michael Kreuter, Argyrios Tzouvelekis

Monocyte count and decline in forced vital capacity (FVC) in patients with IPF
Argyris Tzouvelekis (Athens, Greece), Toby M Maher, Nicole Goh, Michael Kreuter, Vincent Cottin, Birgit Schinzel, Leticia Orsatti, Tamera J Corte

The role of monocyte count on monitoring patients with Idiopathic Pulmonary Fibrosis under antifibrotic treatment
David Jorge Aratújo Barros Coelho (Braga, Portugal), Catarina Sousa, Maria Jacob, Helder Novais-Bastos, Natalia Melo, Patricia Caetano Mota, Antonio Morais

Distinctive polarization of circulating classical monocytes between idiopathic pulmonary fibrosis and idiopathic nonspecific interstitial pneumonia.
Masahiro Yamashita (Morioka (Iwate Prefecture), Japan), Yu Utsumi, Hiromi Nagashima, Hiro Nitanai, Kohei Yamauchi

Macrophage-derived exosomes attenuate fibrosis in airway epithelial cells through delivery of anti-fibrotic miR-142-3p
Julien Guiot (Liège, Belgium), Monique Henket, Fanny Gester, Edouard Louis, Michel Malaise, Renaud Louis, Ingrid Struman, Sebastien-Makon Njock
Inflammasome activation in airway macrophages and the lung microbiome in IPF
Athina Trachalaki (London, United Kingdom), Eliza Tsitoura, Rachele Invernizzi, Semeli Mastromichou, Eirini Vasarmidi, Adam Byrne, Toby M. Maher, Katerina Antoniou, Philip L. Molyneaux

Collagen1a1 mRNA expression in BAL cells is associated with disease progression and poor survival in ILDs
Eliza Tsitoura (Heraklion (Crete), Greece), Athina Trachalaki, Eirini Vasarmidi, Semeli Mastromichou, Maria Kokosi, Konstantinos Karagiannis, George Margaritopoulos, Nikolaos Tzanakis, Athol U. Wells, Katerina M. Antoniou

Exhaled volatile organic compounds in idiopathic pulmonary fibrosis and disease progression
Conal Hayton (Manchester (Greater Manchester), United Kingdom), Dayle Terrington, Waqar Ahmed, Iain White, Max Wilkinson, Kirti Vekaria, Nazia Chaudhuri, Andrew Wilson, Colm Leonard, Stephen Fowler

Essential trace element levels in IPF patients: a case control study
Gülden Bakıcı Şan (Ankara, Turkey), Cebrail Şimşek, Bilge Akgündüz, Vugar Ali Türköy, Yetkin Ağackıran, Nevriye Tezer, Doğuş Özdemir

IgG4 as a potential biomarker of acute exacerbations in ILD
Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Nicolas Kahn, Vivien Somogyi, Markus Polke, Lars Kehler, Jack Gauldie, Michael Kreuter

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, Xiaoqin 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 M Maher, 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-Claussne, 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 (Beijing, China), 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 Rønnow, 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 (San Martino in Rio (RE), Italy), Davide Biondini, Nicol Bernardinello, Simonetta Baraldo, Sara Lococo, Giulia Andreotti, Manuel G Cosio, Marina Saetta, Elisabetta Balestrot, Paolo Spagnolo

Pre-congress content Session 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: Chair to be confirmed

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, Claire 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 Bhallia, Parmeswaran Nair, Louis-Philippe Boulet, Andrèanne Côte
Sex differences in COPD outcome in 5,355 women with COPD: A new analysis of the 3CIA study
Tamara Alonso Perez (Madrid, Spain), Elena Garcia Castillo, Julio Ancochea, Maria Teresa Pastor Sanz, Pere Almagro, Pablo Martinez Cambor, Marc Miravitlles, Monica Rodriguez-Carballeira, Annie Navarro, Bernd Lamprecht, Ana S Ramirez-Garcia Luna, Bernhard Kaiser, Inmaculada Alfageme, Ciro Casanova, Cristobal Esteban, Juan P De-Torres, Bartolome R Celli, Jose M Marin, Jose L Lopez-Comapos, Gerben Ter Riet, Patricia Sobradillo, Peter Lange, Judith Garcia-Aymeric, Josep M Anto, Alice M Turner, Meinl K Han, Arnulf Langhammer, Alice Sternberg, Linda Leivseth, Per Bakke, Are Johannesen, Toru Oga, Borja Cosio, Andres Echazarreta, Nicolas Roche, Pierre-Regis Burgel, Don D Sin, Milo A Puhan, Joan B Soriano

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

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

Urinary metabolomics-profiling of the U-BIOPRED asthma study identified biochemical clusters associated with asthma severity
Craig Wheelock (Stockholm, Sweden), Stacey Reinke, Johan Kolmert, Shama Naz, Romanas Chaleckis, Peter Sterk, Fan Chung, Ian Adcock, Ratko Djukanovic, Sven-Erik Dahlen, The Ubiopred Study Group

Pathology of small airways in non-COPD smokers with low diffusion capacity and patients with COPD
Makoto Shindo (Kyoto, Japan), Naoya Tanabe, Atsuyasu Sato, Kiyoshi 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 (Seinajoki, Finland), Adrienn Pardo, Leena E. Tuomisto, Ida 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 Valerio, Joao Nunes Caldeira, Cedalia Rodrigues, Ana Figueiredo, Fernando Barata

Long-term prognosis of new adult-onset obese asthma
Pinja Ilmarinen (Seinajoki, Finland), Adrienn Pardo, Leena E. Tuomisto, Ida Vähätalo, Onni Niemelä, Pentti Nieminen, Hannu Kankaanranta

The frequent exacerbator phenotype in asthma: a clinical characterization
Andrea Sprio (Orbassano, Italy), Vitina Carriero, Stefano Leva, 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 Pétre, Florence Schleich, Monique Henket, Virginie Paulus, Sophie 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 Myro, Tyligada Ekaterini, Kakolyri Maria, Foukas Periklis, Poulakiis Avraam, Koufopoulos Nektarios, Tsoukalas Georgios, Giga Mina, Papiros Spyridon, Koulouris Nikolaos, Bakakos Petro, 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, Josef Sundh, Björn Stållberg, Karin Lisspers, Andrei 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, Anke-Hilse Maitland-Van Der Zee, Els Weersink
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, Yael Ramiro Gastelum Ayala, Nathalie Martínez Luna, Óscar Ubaldo Martínez Reyna, Valeria Martínez Vázquez, Ameyalli Sandoval Sánchez, Fernando Flores Trujillo, Silvia Síd Juárez, Manuel Gómez Martinez

Pre-congress content

E-poster session: New insights into respiratory physiotherapy

Disease(s) : Airway diseases Sleep and breathing disorders Respiratory critical care
Method(s) : Imaging Physiology Pulmonary rehabilitation General respiratory patient care Pulmonary function testing Respiratory intensive care Endoscopy and interventional pulmonology Palliative care

Chairs : Miguel R. Gonçalves (Porto, Portugal), Stephanie K. Mansell (Guildford (Surrey), United Kingdom)

Effects of continuous chest wall vibration on dyspnoea and exercise tolerance in patients with chronic obstructive pulmonary disease: a randomized controlled trial.
Simone Pancera (Manerbio, Italy), Riccardo Buraschi, Chiara Arienti, Stefano Moschin, Stefano Negrini, Luca Bianchi

The use of a shortened Multiple Breath Washout in the assessment of airway clearance in patients with COPD.
Enya Daynes (Leicester, United Kingdom), Neil Greening, John Owers-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 (VIC), 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 on airways clearance treatments in bronchiectasis.
Katherine O'Neill (Belfast (Belfast), United Kingdom), Rebecca Megrath, 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 (Belfast), United Kingdom), Rebecca Megrath, 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 (, 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 Polino (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
Tina Andersen (Bergen, Norway), Brit Hov, Ove Fonnesen, Hege Clemm, Thomas Halvorsen, Ola Orwige Rokspund, Maria Vollseter

UK survey of current cough augmentation management in patients with motor neurone disease
Rachel Szczepanski (Herries Rd, Sheffield, United Kingdom), Matthew Cox, Molly Hashmi-Greenwood

The implementation of CPAP adherence follow-up in OAS patients: the physiotherapist’s role in an Italian hospital
Carla Simonelli (Lumezzane (BS), Italy), Mara Paneroni, Enrica Bertella, Manuela Saleri, Aubin Georges Fokom, Francesca Garofali, Laura Bertacchini, Michele Vitacca
Physiological effects of Simeox Airway Clearance Device in healthy adults
Laurent Morin (Aix-en-Provence, France), Damien Marino, Adrien Mithalal

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

Forced Oscillation Technique calculates optimum E PAP as sleep stage and body position change
Sidney Cannon-Bailey (United States of America), Chuck Cain, Jim Mckenzie, Michael Kissel, Bill Hardy, Parul Nisha

Pre-congress content
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
Hyunkuk 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, Noriyuki Tashima, Hironobu Sunadome, Toyohiro Hirai

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

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

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

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

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

The anatomy of asthma-related nocturnal cough - a potential new digital biomarker
Frank Rassouli (St. Gallen, Switzerland), Peter Tinschert, Filippe Barata, Claudia Steurer-Stey, Elgar Fleisch, Milo Puhan, Tobias Kowatsch, Martin H Brutsche

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

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

Pulmonary abnormalities in newly diagnosed rheumatoid arthritis
Charlotte Hyldgaard (Aabyhøj, Denmark), Jesper Blengvad, Mette Herly, Dzenan Masic, Brian Logstrup, Bjørk Khaliqi, Grazina Urbonaviciene, Frank Andersen, Christin Isaksen, Behrouz Almasi, Torkell Ellingsen

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

Is the unclassifiable obstructive airway more similar to asthma than COPD?
Debkanya Dey (Kolkata (West Bengal), India), Sayoni Sengupta, Dipanjan Saha, Sikta Mukherjee, Mintu Paul, Parthasarathi Bhattacharyya
Inflammatory bowel diseases in COPD patients.
Antonina Berdyugina (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valery Elykomov, Irina Belova

A study of hematologic disorders in patients with chronic obstructive pulmonary disease
Warritha Limsirisawat (Samutprakarn, Thailand), Pichaya Petborom, Sirapat Tulatamakit, Manaphol Kulpraneet, Suthat Rungruanghiranya, Kanokwann Preedaporppakorn

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

Predictors of exacerbations in chronic obstructive pulmonary disease - a first single-centre experience in Croatia
Davorka Mursic (Zagreb, Croatia), Fran Stjepan Naranda, Ivana Milosevic, Ivona Markelc, Mateja Jankovic Makek, Ana Hecimovic, Visnjka Dukic, Miroslav Samarzija, Andrea Yukic Dugac

Definition of COPD phenotype depending on eosinophil count
Markus Polke (Heidelberg, Germany), NilaPB Polke, Matthias Rötting, Vasiliki Gerovasili, Ralf Eberhardt, Felix J F Herth, Daniela Gompelmann

Pre-congress content

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

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

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 Sunnan, Deniz Dogru, Ugur Ozcelik, Nural Kiper

Discovering the molecular determinant in rhinoviruses by virus-genotype to disease-phenotype association in paediatric patients in Hong Kong
Chun Sang PUN (Hong Kong, Hong Kong), Hai Chao Wang, Kin Pong Tao, Gar Shun Tsun, Wai Yin Yu, Xia Yuan Chen, Maggie Haitian Wang, Paul Kay-Sheung Chan, Ting Fan Leung, Wan Yi Renee Chan

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

Ultrasound pneumonia dimensions in children and inflammation
Ioana Mihaiela Ciuca (Timisoara (Timis), Romania), Monica Marc, Flavian Nicolae Mircov, Mihaela Dediu, Liviu Pop Nabwera

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, Careen Emadau, Krishina Harave, Helen Nabwera

The knowledge, attitude and practices of childhood pneumonia of parents in slum area of Pakistan
Abdul Mannan Mustafa, Ghulam Mustafa

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

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

Multidisciplinary interventions to decrease chest X-ray use in pediatric Community Acquired Pneumonia
Ghulam Mustafa, Abdul Mannan Mustafa

Evaluation of noncystic fibrosis bronchiectasis: six-year single center experience
Faziletcan Zirek (Ankara, Turkey), Gizem Ozcan, Nazan Cihanoglu

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

Growth faltering predicts protracted bacterial bronchitis in children with chronic cough
Ishani Ghosh (Blackpool, United Kingdom), Caroline Beardsmore, Helen Beckett, Manjith Narayan
Heterogeneity of children with protracted wet cough according to results of cluster analysis
Evgenii Furman (Perm (Perm Krai), Russian Federation), Elena Mazunina, Tatjana Evseenkova, Valerii Shul'duko

ADAPTATION TO DISEASE AND ANXIETY-DEPRESSIVE CLINIC IN THE PAEDIATRIC PATIENT WITH PRIMARY CILIARY DYSKINESIA
Silvia Castillo Corullón (Torrent (Valencia), Spain), Selene Valero-Moreno, Maríán Pérez-Marín, Inmaculada Montoya-Caстиlla

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

Seasonal patterns and temporal trends of croup in South Korea during 8 years from 2009 to 2017
Yong-Han Sun (Incheon, Republic of Korea)

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

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

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), Natalya Alyabyeva, Ekaterina Brzhozovskaya, Olga Shamina

Pre-congress content Session 00:00 - 23:59
E-poster session: Respiratory physiology and sleep: new approaches to diagnosis and treatment

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

Long term follow up of antenatally detected congenital lung malformation suggests lung health is not dependent on early surgery.
Kenneth A Macleod, Paul Burns, Mahmoud M Marei, Louise Thomson

Patterns of changes of the flow-volume curve in Duchenne Muscular Dystrophy (DM D)
Antonella LoMauro (Milano (MI), Italy), Erardo Marchi, Grazia D'Angelo, Andrea Aliverti

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, Edite 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 Oestreicher, Kathryn Ramsey, Philipp Latzin

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

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

Reference range for oscillimetry in healthy South African preschool children
Shaakira Chaya (Mokopane, South Africa), Rae Macginty, Carvern 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 Yilmaz Yegit (Istanbul, Turkey), Pakize Cennetoglu, Pınar Ergenekon, Ela Erdem Eralp, Yasemin Gökdemir, Bülent Karadag

Blood capillary volume as a determinant of high DLCO in subjects living at moderate altitude.
(, ) Edgar Alejandro Reyes, Laura Gochicoa, Luis Torre-Bouscolet, Rogelio Pérez

Long-term course of lung clearance index among patients with cystic fibrosis
Elpis Hatzizagorou (Thessaloniki, Greece), C Mantsiou, I Lialias, E Kouroukli, P Talimtz, L Nousia, S Kirvasili, J Tsanakas

VALIDITY OF A HOME RESPIRATORY POLYGRAPHY (HRP) FOR DIAGNOSIS OF OBSTRUCTIVE SLEEP APNEA (OSA) IN CHILDREN
Paula Rodríguez (Vitoria Gasteiz (Álava), Spain), Esther Oceja, Sandra Inglés, José Cordero, Mari Luz Alonso, Ana Isabel Navazo, Jaime Corral, Juan Fernando Masa, Mónica González, María Ángeles Martínez, Maria Jose Jurado, Félix Pumarola, Milagros Merino, Carmen Martinez, Carmen Luna, Álvaro Gimeno, Santiago Juarros, Milagros Del Olmo, Genoveva Del Rio, Teresa Gómez, Maria 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, Angela Drago, Andreia Descalço

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 Jouvin, 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 Pirš, 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 (Paris, France), Diala Kraiche, Sonia Khirani, Mathilde Meot, Damien Bonnet, Brigitte Fauroux

Pre-congress content  Session  00:00 - 23:59
E-poster session: Aspects of pulmonary rehabilitation: part 2
Method(s) : Pulmonary rehabilitation  General respiratory patient care
Disease(s) : Airway diseases
Chairs : Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Clancy Dennis (Canberra (ACT), Australia)

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

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

Sara Lundell (Umeå, Sweden), Mari Andersson, Åsa Holmner, Karin Wadell

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

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

Pulmonary Rehabilitation (PR) in Cheshire and Merseyside (C & M)
(, ), Dennis Wat, Sarah Sibley

Are there common characteristics between people who drop out of Pulmonary Rehabilitation (PR) at Royal Berkshire Hospital (RBH)?
Francesca Knight (Reading, United Kingdom), Laura Cornish, Catherine Thomas
Knowledge, attitudes and practices survey of pulmonary rehabilitation among chest physicians: a first national survey in Lebanon
Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova

Disease-specific knowledge in patients with COPD. A qualitative study before entering in an education program
Eleni Kortianou (Athens (Alimos), Greece), Maria Siafaka, Aspasia Mavronasou, Andreas Asimakos, Nikolaos G. Koukouris

An educational program can improve specific to medication knowledge in patients with COPD
Eleni Kortianou (Athens (Alimos), Greece), Aspasia Mavronasou, Maria Koulopoulou, Maria Psylla, Andreas Asimakos, Nikolaos G. Koukouris

The educational needs of people with bronchiectasis in a pulmonary rehabilitation setting
Annemarie Lee (Melbourne (VIC), Australia), Rebecca Smith, Christian Osadnik, Paul King, Rachael Mcaleer

Patients' perspectives on exposure to environmental contaminants: a missing piece in pulmonary rehabilitation?
Sara Souto-Miranda (Aveiro, Portugal), Sara Melo-Dias, Carla Valente, Célia Freitas, Ana Margarida Sousa, Ana Catarina Sousa, Alda Marques

Conditions for COPD management in municipal healthcare - healthcare professionals' perspective. A qualitative study.
Sara Lundell (Umeå, Sweden), Ulla-Maija Pesola, André Nyberg, Karin Wadell

SingStrong: Community-based group singing for better lung health in COPD
Roisin Cahalan (Limerick (Co Limerick), Ireland), James Green, Ciara Meade

Pre-congress content:

Session 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)

Home-based exercise training (HET) post-hospitalisation for acute exacerbation of COPD (AECOPD) - a mixed-method systematic review
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

Palliative oxygen for the relief of breathlessness: a qualitative meta-synthesis
Slavica Kochovska (Sydney, Australia), Diana Ferreira, Maja Garcia, Jane Phillips, David Currow

Efficacy comparison of inpatient vs outpatient pulmonary rehabilitation: a Systematic Review
Virginie Molinier (Lodève, France), Nelly Heraud, François Alexandre

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

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

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

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

Pulmonary rehabilitation in COPD: influence of comorbidities on physical activity
Matthias Limbach (Bad Reichenhall, Germany), Michael Wittmann, Nicola Leibert, 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 Michalčíková (Holesov, Czech Republic), Katerina Neumannova, Pavla Horova, Martin Dvoracek, 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 Luís Rodríguez 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 Imcaoudene, Manpreet Virdi, Naiana Muntini, Michel De Marchie, Joyce Fung

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

**COPD patients’ experience of long-term domestic oxygen-enriched nasal high flow treatment: A qualitative study.**
Line Storgaard (Aabybro, Denmark), 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 Martínez-Moragón

**Does the benefit from pulmonary rehabilitation differ between phenotypes in COPD?**
Gülru Erbay Polat (İzmir, Turkey), Melih Büyüksirir, Hülya Şahnin, Aysu Ayrancı, Gülistan Karadeniz, Filiz Güldaval, Seher Susam, Fatma Üçsular, Ceyda Anar, Onur Süneçli

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

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**Pre-congress content**

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

**E-poster session: Diagnosis and management of COPD**

**Disease(s):** Airway diseases, Respiratory critical care

**Method(s):** General respiratory patient care, Epidemiology, Palliative care, Respiratory intensive care, Pulmonary function testing, Public health

**Chairs:** Lucia Cestelli (Bergen, Norway), Alberto Papi (Ferrara, Italy)

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

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

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

**Significant parameters in CBC profiles for expecting outcomes of COPD.**
JUNG-KI YOON (SEOUL, Republic of Korea), Jung-Kyu Lee, Eun-Young Heo, Chang-Hoon Lee, Ho Il Yoon, Yong-Il Hwang, Chin Kook Rhee, Kwang Ha Yoo, Hee Soon Chung, Deog Kyeom Kim
SERUM β2-MICROGLOBULIN CORRELATES WITH COPD OUTCOMES AND PREDICTS FUTURE HOSPITALIZATION.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Armando Raúl Guerra, Mayte García-Unzueta, Juan Agüero, Sandra Tello, Marta Cristeto, Joy Osorio, Sheila Izquierdo, Guido Andretta, Karla Fabiola Escobar

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Predictive factors of lung function in patients with COPD and heart failure
Manuel Abraham Gómez Martinez (Mexico City, Mexico), NATHALIE MARTINEZ LUNA, Dulce Gonzalez Islas, Arturo Orea Tejeda, Yael Ramiro Gatelum Ayala, Oscar Ubaldo Martinez Reyna, Valeria Ariadna Martinez Vazquez, Ilse Perez Garcia, Martha Elena Quintero Martinez, Itzel Aneyalli Sandovald Sanchez, Leslie Verdeja Vendrell, Rocío Sanchez Santillan, Juan Jose Orozco Gutierrez, Stephanie Gisel Montoya Azpitaia
Late Breaking Abstract - COVID-19 epidemic in Respiratory Diseases Unit: partitioning 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

Impact of PAHs exposure on exacerbation frequency in asthma using a new grid-scale simulation of PM2.5-PAHs distribution
Yu-Chen Huang (Taipei City, Taiwan), Te Fang Sheng, Shih-Wei Lee, Chon-Lin Lee, Kian Fan Chung, Chun-Hua Wang

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

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

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

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 Lenoerts, Niki L. Reynaert, Miriam T.J. Groenen, Frits M.E. Franssen

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

Inhaled steroids and prevalence of osteoporosis in chronic obstructive pulmonary disease: Data from the DACCORD cohort
Franziska Trudzinski (Homburg (Saar), Germany), Claus F. Vogelmeier, Roland Buhl, Frederik Trinkmann, Victoria Obermoser, Peter Kardos, Carl-Peter Crie, Heinrich Worth

LSC - 2019 - Could the overweight influence bronchiectasis (B) exacerbations frequency (EF)?

Can fractional exhaled nitric oxide be useful to differentiate asthma-chronic obstructive pulmonary disease (COPD) overlap (ACO) from COPD-only
SEYED MOHAMMADYOUSOF MOSTAFAVI POURMANSHADI (Montréal (QC), Canada), Nafiseh Naderi, Palmina Mancino, Pei Zhi Li, Wan Tan, Jean Bourbeau

The impact of previous pulmonary tuberculosis on lung cancer development in never smoker with COPD
Hye Yun Park (Seoul, Republic of Korea), Sun Hye Shin, Danbee Kang, Hayoung Choi, Hye Kyeong Park, Hojoong Kim, Chin Kook Rhee, Kwang Ha Yoo, Juhee Cho

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

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

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

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

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

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

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

Late Breaking Abstract - Small Airways Dysfunction (SAD) correlates with relevant asthma outcomes: longitudinal results from the Assessment of small Airways involvement 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

Within-day repeatability of fractional exhaled nitric oxide in severe asthma
Ran Wang (Hefei (Anhui), China), Fahad Alahmadi, Robert Niven, Stephen Fowler

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

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

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

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

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

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

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

Pulmonary dysfunction after treatment for childhood cancer – Comparing multiple-breath washout with spirometry
Jakob Uschmann (Basel, Switzerland), Christina Schindera, Simeon Zuercher, Ruedi Jung, Rahul Kasteler, Bettina Frauchiger, Corina Silvia Rueegg, Philipp Latzin, Claudia Elisabeth Kuehni, Nicolas Xavier Von Der Weid

FEV6 and FEV1/FEV6 have higher association with small airway function and oxygen saturation than FVC and FEV1/FVC in patients with asthma.
Khalil Ansarin (Tabriz, Islamic Republic of Iran), Esiyeh Seiyedrezaadeh

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Pro?ling of systemic in?ammation and glutathione metabolism in COPD
Ingrid Ot 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, Dagmer-Christiane Fischer, Manfred Ballmann

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

Does heart failure make a difference in pulmonary function testing?
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepechenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov

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

The 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, Yanitsa Zhelyazkova, Dimo Dimov, Vasil Atanasov, Tatiana Vlaykova

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

Pre-congress content Session 00:00 - 23:59
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), Chair to be confirmed

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), Marieke 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 Alispahic, Rikke Sørensen, Josefín Eklöf, Pradeesh Sivapalan, Anders Løkke, Niels Seersholm, Jakob Hedemar 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 Bayarrí, Paula Montero, Julio Cortijo

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

Inhaled bacterial mimetic increases PAD4-dependent NETosis in the lungs
Theresa Andreasson (Mölndal, Sweden), Lina Oqvist, Susanne Arlbright, Cecilia Wingren, Pia Berntsson, Magdalena Rhedin, Matthew Dearman, Annika Borde, Mark Birrell, Annika Åstrand

Genetics of response to sustained-release morphine for chronic breathlessness - an exploratory study
Diana Ferreira (Lisbon, Portugal), Daniel Barratt, Andrew Somogyi, David Curow

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

Effects of biweekly Alpha1 antitrypsin replacement therapy: a case series
Inês Teixeira Farinha (Maia, Portugal), Alexandra Cunha, Filipa Costa
## Azithromycin to prevent exacerbations of chronic obstructive pulmonary disease: a study in the real-world setting
Marli Maria Knorst (Porto Alegre (RS), Brazil), Pedro Olivo Neto, Bruno Baron Spolidoro, Gabriela Marcolin, Danilo Cortoti Berton

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

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

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

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

## Effect of ICS/LABA combination in an ex vivo model of COPD exacerbation
Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ermanno Puxeddu, Maria Gabriella Matera, Paola Rogliani

### Pre-congress content

**Session 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)

#### 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

#### PD40 sGaw with deep inhalation as alternative for PD20 FEV1
Lydia Natalia (Amsterdam, Netherlands), Mart Van Der Plas, Paul Bresser

#### 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 Hofmann, Johannes Schmid

#### Metabolomic biomarkers for asthma severity in HDM-sensitized allergic patients
María Isabel Delgado Dolset (Boadilla del Monte, Spain), Juan Rodríguez-Coira, David Obeso, Alma Villaseñor, José Angel Cumplido, Ana Cabrera Santana, Teresa Carrillo, Coral Barbas, Domingo Barber, Maria M Escribese

#### The relationship between total IgE and specific antibody testing by Immunocap in screening allergic asthma
Fortune Alabi (Cebalrion, United States of America), Christopher Alabi, Hadaya Alkhateeb, Mukudzeishe Zibanyai, Mia Zeper, Kayla Garcia, Adesanke 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), Hsiao-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 Faletrova (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, Nishtha 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 Turin (CORDENONS, Italy), Simonetta Baraldino, Kim Lokar Oliani, Michele Rizzo, Federico Lionello, Erica 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, Na Molgaard Pedersen, Maha Mousa, Hans Jürgen Heinrich Hoffmann, Johannes Schmid

Indoor home allergen load relates to clinical outcomes in COPD: A metagenomics approach
Pei Yee Tiew (Singapore, Singapore), Tanveer Kaur Jagg, Michele Mac Aogain, JX Kenny Lau, Fransiskus Xaverius Ivan, Nicolas E. Gaultier, Aiko Reh, Pedro Bianchi, Luisa Furlan, Andrea Santa Maria, Flavia Lopes, Angela Souza, Marcio Penha

Upper Respiratory Symptoms in Patients with Chronic Obstructive Pulmonary Disease
Nicola Obning (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 Noto, 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 (Askin, Switzerland), Ana Teixeira, Vaishali Chaudhuri, Mahdi Hashemi, Robert Pálmér, Katarina Korsback, Carlos Pedrinaci, Ioannis Psallidas

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

Selected blood parameters of inflammation (circulating immune complexes, CIC, C-reactive protein, CRP, neutrophil/lymphocyte ratio and platelet/lymphocyte ratio) in patients with chronic obstructive pulmonary disease (COPD)
Grzegorz Przybylski (Osielsko, Poland), Marta Pilaczyńska-Cemel, Ryszard 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, Hümeira Kas, Faustine Funke, Ina Haasler, Hendrik Beckert, Sebastian Reuter, Christian Taube

Pre-congress content
00:00 - 23:59

E-poster session: Novel mechanisms and management of paediatric asthma
Method(s): Cell and molecular biology Epidemiology Public health General respiratory patient care Physiology Pulmonary function testing
Chairs: Sejal Saglani (London, United Kingdom), Michael Kabesch (Regensburg, Germany)

Biologicals in the treatment of severe asthma in children: A PERMEABLE assessment of the current practice in Europe
Michael Kabesch (Regensburg, Germany), Heike Buntrock-Döpcke, Jakob Niggel, Korneliusz Golebski, Cornelis Van Drunen, Susanne Reimarts, Uroš Potočnik, Erik Melén, Anke-Hilse Maitland-Van Der Zee, Susanne Vijverberg

Respiratory modulation of the pulse oximeter plethysmogram amplitude as a marker of severity in acutely wheezy young children
David Wertheim, Oana Anton, Catherine Olden, Paul Seddon

Identifying T-lymphocytes in the sputum of children with acute asthma
Megan Philpot (Leicester, United Kingdom), David Cousins, Erol Gaillard

Effect of nasal polivalent bacterial lysate on the clinical course of seasonal allergic rhinitis in children - preliminary study.
Magdalena Kowalska (Lublin, Poland), Andrzej Emeryk, Kamil Janeczko, Iwona Czerwińska Pawluk
### Elevated type I collagen degradation predicts persistent asthma in children
Sarah Rønnow (Herlev, Denmark), Benjamin Hoffmann-Petersen, Jannie Marie Bülow Sand, Morten Karsdal, Helene Marlies Rasmussen, Lone Agertoft, Diana Julie Leeming, Grith Lykke Sørensen

### Metabolomics applied to exhaled breath condensate in asthmatic children treated with inhaled steroids
Valentina Agnese Ferraro (Rosa' (VI), Italy), Silvia Carraro, Paola Pirillo, Gabriele Poloniato, Matteo Stocchero, Giuseppe Giordano, Stefania Zanconato, Eugenio Baraldi

### Prescribing patterns of antiasthma medication in children and adolescents in primary care in France.
Véronique HouDouin (Paris, France), Isabelle Naiim, Aya Ajrouche, Florence Tubach, Sylvie Guillo, Yann De Rycke, Florentia Kaguiedou

### Accuracy of blood eosinophil count in predicting sputum eosinophils in children with problematic severe asthma
Benjamin Davies (Derby (Derbyshire), United Kingdom), Sue Frost, Satish Rao, David Thickett, Sejal Saglani, Prasad Nagakumar

### Identification of disease-specific molecular breath profiles in patients with allergic asthma
Ronja Weber (Männedorf, Switzerland), Srdjan Micic, Bettina Streckenbach, Lara Welti, Tobias Bruderer, Nathan Perkins, Demet Inci, Jakob Usemann, Alexander Möller

### Familial co-aggregation of asthma and type 1 diabetes mellitus in children – a Swedish population-based cohort study
Awad I. Smew (Stockholm, Sweden), Cecilia Lundholm, Lars Sävendahl, Paul Lichtenstein, Catarina Almqvist

### Cord blood Interleukin-13 and IFN-Gamma levels As Biomarkers of Ever-Wheezeing in the First Year of Life
Ozge Yilmaz (Manisa, Turkey), Adem Yaşar, Pınar Ay, Arzu Çalışkan Polat, Ferhan Odabaşı Cingöz, Tunç Alkin, Fatma Taneli, Soltan Hasdemir, Yurdakübra Parzı, Hasan Yüksel

### Elevated Serum KL-6 in Pediatric Asthma Exacerbation: a Proof of Alveolar Injury
Iman H. Draz (Cairo, Egypt), Iman A. Shaheen, Eman Youssef

### Functional status of ciliated epithelium in children with mild, moderate, and severe asthma
Irina Ozerskaia (Moscow, Russian Federation), Natalia Geppe, Ulyana Malyavina

### Associations of serum cytokine levels with asthma, wheeze and allergic rhinitis symptoms in 5-years old children: a population-based study
Isabella Annesi Maesano (Paris, France), Giancarlo Pesce, Nicola Glaichenhaus

### Changes in nitric oxide (NO) cycle metabolites in children with mild asthma (BA) receiving STEP-2 therapy
Mary Glukhova (Moscow, Russian Federation), Natalia Geppe, Svetlana Soodaeva, Igor Klimanov, Natalia Kolosova

### The pro-resolving lipid mediator lipoxin A4 inversely correlates with proinflammatory chemokines and identifies a subgroup of asthmatic patients with disease progression
Isabell Ricklefs (Lübeck, Germany), Louisa Schönberg, Nadine Weisshauer, Markus Weckmann, Dominik Thiele, Inke König, Erika Von Mutius, Gesine Hansen, Klaus Rabe, Matthias V. Kopp

### Pre-congress 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)

**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 Golfinopoulos, Christina Oikonomopoulou, Vasiliki Kitra

**Breathlessness on exercise: paediatric cardiopulmonary exercise test results**
Ridma Jayaratna (Malabe, Sri Lanka), Thomas Goddard, Charlotte Wells, Samatha Sonappa

**Daytime predictors of nocturnal hypercapnic hypoventilation in children with neuromuscular disorders: a threshold for FVC z-score**
Megan Frohlich (Narara (NSW), Australia), John Widger, Ganesh Thambipillay, Arthur Teng, Michelle Farrar, Sandra Chuang

**End of test (EOT) criteria for spirometry in preschool children**
Luciano Enrique Busi (Trelew (Chubut, Argentina), Peter David Sly, Sabrina Gisel Fernández
Evaluation of paediatric home oxycapnography for patients with respiratory and complex multisystem disorders
Joe Madge (Leicester, United Kingdom), Molla Imadaddin Ahmed, Prakash Patel, Ben Elkingston, Helen Hickey, Louise Mogford, Kay Calvert, Kamini Jain

Description of central apnea and periodic breathing in children
Sergio Ghirardo (Trieste, Italy), Alessandro Amaddeo, Sonia Khirani, Lucie Griffon, Brigitte Fauroux

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 Hoorenbeek, Stijn Verhulst, Vera Saldien, Olivier Vanderveken

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 Haidopoulou

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

Night-to-night variability of polygraphy in children with obstructive sleep apnoea
Ela Erdem Eralp (Istanbul, Turkey), Cansu Yilmaz Yegit, Yasemin Gokdemir, Pinar Ergenekon, Meltem Yilmaz, Pinar Ay, Baran Balcan, Bulent Karadag, Refika Ersu

Pulmonary function test results in young athletes and sedentary children
Oleksandr Onikiienko (Kharkiv, Ukraine), Valentyn Polyakov, Ganna Senatorova, Margaryta Gonchar

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

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

Nusinersen stabilises respiratory function in paediatric spinal muscular atrophy
Archana Chacko (Brisbane, Australia), Sean Deegan, Leanne Gauld, Peter Sly

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, 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

Polysonomography findings in children with mucopolysaccharidoses
Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Birce Sunman, Omer Faruk Ipek, Kubra Kilc, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Nural Kiper, Serap Sirivi, Ugur Ozcelik

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

E-poster session: Tapas of respiratory physiotherapy

Disease(s): Airway diseases  Respiratory critical care  Interstitial lung disease  Sleep and breathing disorders

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

Chairs: Christian Osadnik (Melbourne, Australia), Victoria Alcaraz Serrano (Barcelona, Spain)
Optoelectronic plethysmography: reference values for breathing pattern
Liliane Mendes (Belo Horizonte (MG), Brazil), Raquel Britto, Guilherme Fregonzei, Vanessa Resqueti, Marina Fagundes, Arnêle Dornelas, Renata De Souza, Daniella Brandão, Verônica Parreira

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

Effects of the elastic tape on dyspnea, health status, and health-related quality of life in individuals with COPD: a randomized controlled trial
Eloise Santos (São Paulo, Brazil), Thiago Fernandes, Rafaela Xavier, Regina Carvalho-Pinto, Rafael Stelmach, Celso Carvalho

Decision tree models as a classifier of endothelial function based on strength, pulmonary and cardiac function in COPD: Preliminary analysis.

Dynamic Balance, Exercise Capacity and Muscle Oxygenation in Children with Non Cystic Fibrosis Bronchiectasis
Jan Dik (Ankara, Turkey), Haluk Tekerlek, Melda Saglam, Naciye Vardar Yagli, Ebru Calik Kutukcu, Deniz Inal Ince, Deniz Dogru Eroz

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, Lilia Andrade, Carla Valente, Diva Ferreira, Paula Simão, Ana Tavares

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 Gunduz, Can Sevinc

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 Worral, Christopher Grime, Rebecca Thursfield, Ian Sinha, Mg Semple

Implementation of immersive virtual reality influences outcomes of exercise test
Sebastian Rutkowski (Opole, Poland), Patryk Szary, Anna Rutkowska, Richard Casaburi

Could step and stepper tests be valid to assessing the exercise and functional capacities in patients with COPD? Results from a systematic review.
Rui Vilarinho (Porto, Portugal), Cátia Caneiras, Antonio Mesquita Montes

Comparison of physical performance and spirometry values according to fall risk of COPD subjects
Beyza Nur Karadüz (Ankara, Turkey), Yasemin Cirak, Ebru Calik-Kutukcu, Gul Deniz Yilmaz-Yelvar, Nurgul Durustkan-Elbasi

Functional capacity categorization of pulmonary fibrosis patients according International Classification of Functioning, Disability and Health (ICF) qualifiers.
Luciana Malosa Sampaio (São Paulo (SP), Brazil), Patricia Lira Dos Santos, Soraia Micaela, Carina Silveira Mariano Nunes, Frederico De Melo Cruz, João Carlos Ferrari Correa, Ivan Peres Costa

Respiratory muscle function in patients with gastroesophageal reflux disease with extraesophageal symptoms
Katerina Neumannova (Olomouc, Czech Republic), Jaromir Zatloukal, Pavla Horova, Tamara Michalcikova, Martin Dvoracek

Evaluation of respiratory muscle strength and functional capacity in patients with different oncological surgery
Fatma Rümeyesa Kasap (Ankara, Turkey), Naciye Vardar Yagli, Melda Saglam, Deniz Inal Ince, Derya Karakoç, Erhan Hamaloğlu

Hand grip strength is associated with maximal inspiratory pressure in patients with chronic obstructive pulmonary disease
Akira Tamaki (Kobe, Japan), Mio Koizumi, Hiroshi Tamura

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 Calik-Kutukcu, Hulya Arikan, Hakan Caliskan, Deniz Inal-Ince, Sema Savei, Melda Saglam, Naciye Vardar-Yagli, Hikmet Firat, Melike Yuce-Ege, Sadik Ardic

Comparison of pulmonary functions and quality of life in patients with parkinson’s disease and multiple system atrophy
Begum Unlu (Istanbul, Turkey), Semra Oguz, Bayram Kapsigay, Eren Timurtas, Mine Gülden Polat, Hülya Apaydin
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 Rodríguez 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 Araújo, 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

E-poster session: Optimising the benefits of pulmonary rehabilitation

Late Breaking Abstract - Exercise rehabilitation in telemedicine for COVID-19 patients.
Eva Bernardi (Vazzola (TV), Italy), Francesca Plazzi, Anna Ferravante, Ilaria Valentini, Andrea Mussoni, Sussanna Mascetti, Luigi Arcangelo Lazzari Agli

Late Breaking Abstract - ‘Shielding’: Patient experience of measures to reduce risk of COVID-19 in those with pre-existing respiratory conditions
Andrew Cumella (London, United Kingdom), Keir Philip, Erika Kennington

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

Effects of a comprehensive pulmonary rehabilitation (PR)-program on frailty in lung transplantation candidates - a prospective observational study
Tessa Schneeberger (Schönau am Königssee, Germany), Inga Jarosh, Daniela Leitl, Rainer Gloeckl, Jian Wiederhold, Sophia Leidinger, Klaus Kenn, Andreas Rembert Koczulla

Long-term effectiveness of home-based pulmonary rehabilitation in elderly people with severe COPD and chronic respiratory failure.
Sarah Gephine (Québec (QC), Canada), Olivier Le Rouzic, François Machuron, Benoit Wallaert, Cécile Chenivesse, Didier Saey, François Maltais, Patrick Mucci, Jean-Marie Grosbois

Sarcopenia in idiopathic pulmonary fibrosis (IPF): Prevalence and response to pulmonary rehabilitation (PR)
Claire M. Nolan (Richmond, United Kingdom), Matthew Maddocks, Toby M. Maher, Suhani Patel, Ruth E. Barker, Jessica Walsh, Oliver Polgar, Peter M. George, William D.C. Man

Effects of home-based pulmonary rehabilitation on physical frailty in people with COPD and chronic respiratory failure.
Sarah Gephine (Québec (QC), Canada), Jean-Marie Grosbois, Didier Saey, François Maltais, Patrick Mucci

An increase in steps per day 6 weeks after pulmonary rehabilitation of COPD patients correlates with an improvement in quality of life
Konrad Schultz (Bad Reichenhall, Germany), Matthias-Peter Limbach, Michael Schuler, Johannes Carl, Klaus Pfeifer, Wolfgang Geidl

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

Do you know if your patient can cross the traffic light during the green period? - a prospective observational study
Inga Jarosh (Schönau am Königssee, Germany), Sophia Leidinger, Tessa Schneeberger, Jian Wiederhold, Rainer Glöckl, Daniela Leitl, Andreas Rembert Koczulla, Klaus Kenn

Incorporating patients with chronic heart failure (CHF) into pulmonary rehabilitation (PR): a propensity matched analysis
Oliver Polgar (Harrow, United Kingdom), Claire M Nolan, Ruth E Barker, Suhani Patel, Jessica A Walsh, William D-C. Man
The effect of aerobic and breathing exercises on clinical control and psychosocial status in patients with moderate and severe asthma: a RCT
Fabiana Kim (São Paulo, Brazil), Jaqueline Rocha, Cibele Berto, Adriana Lunardi, Andrey Wirgues, 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 Tzaksos, 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
Nils Henrik Holmedahl (Jessheim, Norway), Ingrid Sundfør, Cesilie M Stenbakken, Siri H Solberg, Anne Edvardsen

L-glutamine supplementation improves upper airways immune response in sedentary and physically active elderly
Juliana Santos (Salvador (BA), Brazil), Vitória Paixão, Ewin Almeida, Telma Cordeiro, Jonatas Amaral, Roberta Foster, Adriane Perandio, Tamaris Roseira, Marcelo Rossi, Fernanda Monteiro, 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, Frederic Costes, Hakima Ouksel

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

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

Pre-congress content

Session 00:00 - 23:59

E-poster session: Inflammatory pathways in chronic airway diseases
Disease(s): Airway diseases, Thoracic oncology
Method(s): Cell and molecular biology

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 (Xi'an, China), 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
Asa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Jing Gao, C. Magnus Skold

Involvement of Parkin-mediated mitophagy in COPD-related sarcopenia pathogenesis
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
Benedit Ditz (9713 GZ, Netherlands), Senani Rathnayake Mudiyanselage, Jos Van Nijnatten, Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Huib Kerstjens, Maarten Van Den Berge, Alen Faiz

Lung DNA methylation in COPD: relationship with airflow limitation severity
Maria Rosa Faner Canet (Barcelona, Spain), Sandra Casas-Recasens, Guillaume Noell, Nuria Mendoza, Alejandra Lopez-Giraldo, Angela Guirao, Alvar Agusti

LSC - 2019 - The role of the COPD susceptibility gene FAM13A in barrier function and pro-inflammatory responses of human airway epithelial cells
Mirjam P. Roffel (Groningen, Netherlands), Corry-Anke Brandsma, Alen Faiz, Maarten Van Den Berge, Tania Maes, Ken R. Bracke, Irene H. Heijink

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

Metabolomics identifies biomarkers of exacerbations in smokers with and without COPD
Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José María Marin Trigo, Ciro Casanova Macario, Borja García-Cosío, Isabel Mir Viladrich, Ingrid Solanas Garcia, 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 Frayesse, Belén Callejo Leblic, Eduardo Márquez Martín, Margarita Marín Royo, Eva Balcells Vilar, Antonia Llunell Casanovas, Cristina Martinez Gonzalez, Juan Bautista Galdiz Turrí, Celia Lacácuel Bautista, Sandra Garcia Garrido, German Peces-Barba

Chromatin dynamics via HMGN5 regulates COPD susceptibility
Thomas Conlon (Neuherberg, Germany), Julian Dorer, Rim Sarker, Gerald Bargstaller, Lisa Merthan, Valerie Gailus-Durner, Helmut Fuchs, Martin Hrabě De Angelis, Takashi Furusawa, Michael Bustin, Ali Önder Yildirim

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

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

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

CARD9S12N allele expression imbalance favors development of allergic bronchopulmonary aspergillosis
Xia Xu (China), Ximing Jia, Jinfu Xu

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

Pre-congress content Session 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 Kauno Klinikos
Vytautas Ankudavicius (Kaunas, Lithuania), Marius Zemaitis, Skaidrius Miliauskas

Late Breaking Abstract - New centre experience in virtual bronchoscopic navigation in combination with fused fluoroscopy to target solitary pulmonary nodules
Faustina Funke (Essen, Germany), Jane Winantea, Kaid Darwiche
Associations between allergen-specific IgE sensitization and HLA class II alleles in the EGEA cohort
Valerie Siroux (La Tronche, France), Hubert Gheerbrant, Alicia Guillien, Christian Lupinek, Jean Bousquet, Florence Demenais, Frédéric Gormand, Rachel Nadif, Isabelle Pin, Christophe Pison, Rudolf Valenta, Emmanuelle Bouzigon

Rhinovirus & IL33 driven HBE C gene signatures are disease & IL1RL1 polymorphism dependent
Michael Portelli (Loughborough, United Kingdom), Marco Londei, Dominick Shaw, Simon Johnson, Christopher Brighting, Ian Sayers

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

Genetic vulnerability to air pollution-related decrease in lung function in elderly women
Sara Kress (Düsseldorf, Germany), Qi Zhao, Anke Hüls, Holger Schwender, Klaus Unfried, Tamara Schikowski

Effect of systemic glucocorticoids on TRPM8 expression in asthma patients
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Elizaveta Sheludko, Evgeniya Afanaseva, Juliy Perelman, Yana Gorchakova, Qi Li, Xiangdong Zhou

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

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

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

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

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

Role of TRPM8 polymorphisms in predisposition to COPD development in smokers
Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Olesya Kotova, Dina Gassan, Elizaveta Sheludko, Evgeniya Afanaseva, Tatyana Malteva, Ivana Sugaylo

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

Diagnosing alpha-1 antitrypsin deficiency in Romania - first 1000 cases tested
Ana-Maria Zaharie (Bucuresti (Sector 2), Romania), Valentin Caius Coste, Alina Croitoru, Lavinia Davidescu, Joanna Chorostowska-Wynimko, Ruxandra Ulmeanu

Pre-congress content  Session  00:00 - 23:59
E-poster session: Novel directions in pleural disease: bench to bedside
Disease(s): Thoracic oncology  Airway diseases
Method(s): Cell and molecular biology  General respiratory patient care  Imaging  Physiology  Endoscopy and interventional pulmonology  Epidemiology  Palliative care
Chairs: Kevin Blyth (Glasgow (Glasgow), United Kingdom), Duneesha De Fonseka (Sheffield, United Kingdom)

Analysis of circular RNAs expression profile in pleural metastases from lung adenocarcinoma
Qiang Xiao (Foshan, China), Xi Li, Fu Rong

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

The smellprint of mesothelioma cells: intrinsic biomarkers for diagnosis and subtyping
Elie Janssens (Edegasus, Belgium), Elly Marcq, Lore Vandermeersch, Christophe Walgraeve, Jan Van Meerbeeck, Kevin Lamote
The role of fibroocyte-like cells in combination treatment of immune checkpoint inhibitor with antiangiogenic agents
Atsushi Mitsuhashi (Tokushima, Japan), Tania Afroj, Atsuro Saijo, Kenji Otsuka, Hiroto Yoneda, Kazuya Koyama, Masamichi Sugimoto, Osamu Kondoh, Hiroshi Nokihara, Yasuhiko Nishioka

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

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 Debirt, Agnes Noel, Didier Cataldo

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

The UK timed diagnostic lung cancer pathway: a pleural disaster
Avinash Aujayeb (Newcastle, Mauritius), Karl Jackson

MULTIDISCIPLINARY APPROACH IN THE EVALUATION AND MANAGEMENT OF PATIENTS WITH MALIGNANT PLEURAL MESOTHELIOMA. A SINGLE CENTER EXPERIENCE.
Giulia Maria Stella (Pavia (PV), Italy), Claudio Valzia, Laura Saracino, Francesco Agustoni, Emma Pozzi, Pietro Rinaldi, Cristiano Primiceri, Matteo Bosio, Patrizia Morbini, Chandra Bortolotto, Angelo Corsico

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

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

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

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

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

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

Clinical long-term outcome of non-specific pleuritis (NSP) after surgical or medical thoracoscopy
Valentine Mismetti (Saint Etienne, France), Georgia Karpathiou, Stavros Anevlasis, Olivier Tifflet, Francois Casteillo, Paschalis Ntolios, Tiffany Trouillon, Michel Peoc'h, Marios E. Froudarakis

Mesothelioma is associated with ipsilateral thoracic muscle loss
Andrew C Kidd (Gloucester (Gloucester), 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 King, Kevin G Blyth

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

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, Khosro Hekmat, Matthias Heldwein, Stephan Schäfer, Reinhard Büttner, Marianne Engels, Winfried Randerath

Pre-congress content

E-poster session: Pulmonary hypertension in lung diseases
**Disease(s):** Interstitial lung diseases, Pulmonary vascular diseases, Airway diseases

**Method(s):** Respiratory intensive care, Imaging, Epidemiology, Transplantation, Pulmonary function testing, General respiratory patient care, Physiology, Pulmonary rehabilitation

**Chairs:** Sheila Ramjug (Altrincham, United Kingdom), Chair to be confirmed

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**Lung vessel morphology changes with airway obstruction**

Michael Piennt (Graz, Austria), Tamas Fero, Gabor Kovacs, Horst Olschewski, Jürgen Biederer, Bertram Jobst

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**L SC - 2019 - GCN2 signalling is dysregulated in pulmonary fibrosis**

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**Risk assessment in severe pulmonary hypertension due to interstitial lung disease**

Athiththan Yogeswaran (Giessen, Germany), Marlene Faber, Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall

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**Mild parenchymal lung disease and/or low diffusion capacity impacts survival and treatment response in patients diagnosed with idiopathic pulmonary arterial hypertension**

Robert A. Lewis (Sheffield (South Yorkshire), United Kingdom), A A Roger Thompson, Catherine G Billings, Athanasios Charalampopoulos, Charlie Elliot, Neil Hamilton, Catherine Hill, Judith Hurdman, Smittha Rajaram, Ian Sabroe, Andy J Swift, David G Kiely, Robin Condliffe

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**Pulmonary hypertension is a negative prognostic factot of long term survival in patients with idiopathic pulmonary fibrosis after lung transplantation**

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**Treatment of severe pulmonary hypertension secondary to chronic lung disease: A multicentre study.**

Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Artenetxe Perez, Maria Lorena Coronel, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz, María Teresa Velázquez Martín, Carlos Andrés Quezada Loaiza, Pilar Escribano Subias

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**Impact of borderline (BL) pulmonary hypertension (PH) in chronic lung diseases (CLD).**

Lucilla Piccari (Barcelona, Spain), Patrizio Vitulo, Stephen John Wort, Federica Meloni, Alessandro Bertani, Isabel Blanco, Laura Claire Price, Elena Salvaterra, Marta Beretta, Virginia Luz Pérez Rodriguez, Colm Mc Cabe, Elena Cattaneo, Adriana Callari, Manuel Lopez Meseguer, Laura Scelsi, Diego Á Rodriguez, Joan Albert Barberà, Lavinia Martinò, Fabio Tuzzolino

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**Exercise hemodynamics in patients with COPD**

Teresa Sassmann (Graz, Austria), Philipp Douschan, Vasile Foris, Alexander Avian, Piet-Lennart Rosenstock, Katarina Zeder, Gerhard Bachmaier, Horst Olschewski, Gabor Kovacs

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**Resistive and dynamic exercise stress testing in COPD and IPF candidates to lung transplantation: role of the pulmonary arterial stiffness**

Enric Domingo (, Spain), Juan Grignola, Carlos Bravo, Manuel López Meseguer, Pedro Suasnava, Antonio Roman

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**Different response to pulmonary vasoactive therapy in pulmonary hypertension due to lung diseases (group III PH) Report from a pneumology based PH center**

Frank Reichenberger (Munich, Germany), Katharina Heinig-Menhard, Cosmina Stoleriu, Margot Neiswirth, Jürgen Behr, Ralf Göres, Wolfgang Gesierich, Edith Silber Nagel

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**Identifying pulmonary hypertension in newly recognized interstitial lung diseases - a role of new scoring system**

Małgorzata Sobiecka (Warszawa, Poland), Katarzyna Lewandowska, Jarosław Kober, Monika Franczuk, Agnieszka Skoczyłasz, Witold Tomkowski, Monika Kus, Monika Szturnowicz

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**Different definitions of pulmonary hypertension in interstitial lung disease: a prognostic evaluation.**

Tonomori Sato (Seto, Japan), Taiki Furukawa, Ryo Teramachi, Yasuhiro Yamano, Toshiaki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Yasuhiro Kondoh

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**Long-term effect of bosentan in patients with borderline or less severe pulmonary hypertension secondary to COPD – A single-center, interventional, parallel, randomized, prospective study**

Yosuke Tanaka (Tokyo, Japan), Mitsuori Hino, Tetsuya Okano, Toru Tanaka, Kenichiro Atsumi, Yoshinobu Saito, Masahiro Seike, Hiroshi Kimura, Akihiko Gemma

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**Pulmonary hypertension associated with definitive and probable usual interstitial pneumonia**

Galina Nekludova (Moscow, Russian Federation), Alexander Cherniak, Zamira Merhohova, Natalia Tsareva, Zhanna Naumenko, Sergey Avdeev

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**Phenotype of patients with severe pulmonary hypertension secondary to chronic obstructive pulmonary disease: A multicentre study.**

Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Artenetxe Perez, Maria Lorena Coronel, Carmen Pérez-Olivares Delgado, Maria José Cristo Ropero, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz, Carlos Andrés Quezada Loaiza, Pilar Escribano Subias
The association of diuretics treatment with hospitalization rates of patients with chronic obstructive pulmonary disease and pulmonary hypertension: a population-based study
Elena Jureviciene (Vilnius, Lithuania), Roma Puronaite, Vaida Suidmantaite, Edvardas Danila

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

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

Sarcoidosis-associated Pulmonary Hypertension: A London Cohort
Laura C Price (United Kingdom), Vasilis Kouranos, Kostantinos Dimopoulos, Colm Mccabe, 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

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

Pre-congress content Session 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), Chair to be confirmed

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

LSC - 2019 - Streptococcus pneumoniae induces broad alterations in mitochondrial functions in human airway epithelial cells

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

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

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 Wronska, Armin Braun, Katherina Sewald

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

Tiotropium and fluticasone inhibit rhinovirus-induced mucin production via multiple mechanisms in differentiated airway epithelial cells
Ying Wang (Lorenskog, Norway), Dennis K. Ninaber, Annemarie Van Schadewijk, Pieter S. Hiemstra

Relationship of the secretory immunoglobulin A (slgA) and cortisol in pregnant women with chronic simple bronchitis associated with cytomegalovirus infection (CMV1)
Igor N. Gorikov (Blagoveschensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Victor P. Kolosov, Leonid G. Nakhemchen, Natalia A. Ishutina, Inna V. Dovzhikova

Human rhinovirus 16 infection of human macrophages disrupts Arp5 expression impairing macrophage internalization: a potential link to exacerbation in chronic obstructive pulmonary disease?
Jamil Jubrail (Edinburgh, United Kingdom), Kshanti Africano Gomez, Floriane Herit, Anna Mularski, Pierre Bourdoncle, Lisa Obeg, Elisabeth Israelsson, Pierre Regis-Burgel, Gaell Mayer, Danen Cunoosamy, Nisha Kurian, Florence Niedergang
Assessment of innate immunity mediators in the lung of COPD patients: relation with disease manifestations
Simonetta Baraldo (Padova (PD), Italy), Paolo Casolari, Matteo Bonato, Nicol Bernardinello, Luca Morandi, Marina Saetta, Alberto Papi, Marco Contoli

Macrophages in lung and innervating ganglia express TLR7 and release nitric oxide
Becky Proskocil (Portland, United States of America), Allison Fryer, David Jacoby, Matthew Drake

Using mouse tracheal epithelial cells (mTECs) to uncover an antiviral role for BPIFB1.
Abdulaziz Alkhoshaiban (Sheffield, United Kingdom), Priyanka Anujan, Lynne Bingle, Colin Bingle

Analysis of adaptive CD8+ T cell responses to Influenza A Virus in COPD patients
Sophia Haines (Munich, Germany), Ilona Kammerl, Thomas Meul, Andreas Moosmann, Thomas Hofer, Elfriede Nössner, Marion Frankenberger, Jürgen Behr, Katrin Milger-Kneidinger, Silke Meiners

Interferon responses are dysfunctional in the epithelium of COPD Patients
Rassin Lababidi (Oxford, United Kingdom), Jennifer Cane, Mona Bafadhel

A cute exacerbations of COPD induce a prothrombotic state through platelet-monocyte complexes, endothelial activation and increased thrombin generation
Lisa van der Vorm (Apeldoorn, Netherlands), Li Li, Dana Huskens, Janine Hulstein, Mark Roest, Philip De Groot, Hugo Ten Cate, Bas De Laat, Jasper Remijin, Sami Simons

Sputum macrophages in chronic bronchitis are activated, steroid resistant and drive epithelial MUC5B
Melker Göransson (Mölndal, Sweden), Kristina Andelid, Anders Andersson, Karolina Öst, Zala Rojnik, Lowie Vanfleteren, Stephen Delaney

A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in chronic obstructive pulmonary disease (COPD) lungs
Isabelle Dupin (Bordeaux, France), Edmée Eyraud, Elise Maurat, Pierre Vallois, Cécile Contin-Bordes, Pierre-Olivier Girodet, Matthieu Thumelé, Patrick Berger

Improving automated cell recognition of sputum and BAL cells for Chipcytometry analysis
Saskia Carstensen (Hannover, Germany), Olaf Holz, Jens M. Hohlfeld, Bodo Rosenhahn, Meike Mueller

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

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

Whole exome sequencing (WES) of a Chinese Han family with familial pulmonary sarcoidosis
QIAN ZHANG, Hui Huang, Zuojun Xu

Whole Exome Sequencing study in a subgroup of sarcoidosis patients presenting an opportunistic infection with Cryptococcus neoformans.
Alain Calender (Lyon, France), Thomas El Jammal, Florence Jeny, Pascal Seve, Hilario Nunes, Dominique Valeyre, Yves Pacheco

Homozygous mutations of ARFGAP1 gene in severe sarcoidosis
Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Pascal Sève, Yves Pacheco

Association of HLA variants with sarcoidosis in K orean population: pilot study
Martin Petřek (Olomouc, Czech Republic), Kateřina Sikorová, Miae Kim, Veronika Žižková, Su-Jin Moon, Jin Woo Song

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, Stamatis Tsiplis, Chryssoula Antonou, Maria Ntassiou, Serafeim Chrysikos, Aris Anagnostopoulos, Kuriaki Chololoud, Evangelia Koukaki, Matthais Katsaras, Vassilios Tzilas, Katerina Dimakou, Demosthenes Bouros, Argyros Tzouvelekis

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 Ohshimo, 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 lysophospholipids-producing enzymes in patients with sarcoidosis
Koji Murakami (Sendai, Japan), Tsutomu Tamada, Daisuke Saigusa, Masayuki Nara, Eisaku Miyauchi, Hideki Aritake, Shunichi Gamo, Hisatoshi Sugiu, 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 mRNAs in Exhaled Breath Condensate (EBC) and EBUS-TBNA of patients with Mediastinal Tuberculosis and Pulmonary Sarcoidosis
Bijay Pattanak (New Delhi, India), Sryma Pb, Saurabh Mittal, Anant Mohan, Anurag Agrawal, Randeep Guleria, Karon 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 Ostrovs'kyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Kseniia Ostrov'ska

The value of urinary calcium as biomarker in chronic sarcoidosis
Paolo Cameli (Certaldo (FI), Italy), Stefano Gonnelli, Elena Bargagli, Miriana D'Alessandro, Laura Bergantini, Dea Tomai Pitinca, Rosa Metella Refini, Maria Pieroni, Piersante Sestini, Carla Caffarelli

An association between sarcoidosis and serum immunoglobulin levels
Victoria Sholomova (Moscow, Russian Federation), Michael Brovko, Larisa Akulkina, Eugene Stambolsky, Marina Lebedeva, Leonid Strigakov, Larisa Samokhodskaya, Tatyana Krasnova, Sergey Moiseev

Serum markers of acute sarcoidosis.
( ), Vladimir Evstifeev, 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  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, Patrícia Freitas, Natália Passos, Rafaela Xavier, Rafael Stelmach, Regina Pinto, Celso Carvalho

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

Association between physical activity in daily life and exercise capacity in COPD: do total volume and/or isolated intensities play a role?

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

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

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

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

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

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

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

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

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

Relationship among physical activity, pulmonary functions and physical functions in candidates of allogeneic hematopoietic stem cell transplantation.
Gülşah Bargı (İZMİR, Turkey), Meral Boşnak Güçlü
Physically active lifestyle in elderly improves upper airways mucosal immune response
Juliana Santos (Salvador (BA), Brazil), Telma Cordeiro, Ewin Barbosa, Vitória Paixão, Jonas Amaral, Roberta Foster, Adriane Sperandio, Tamaris Roseira, Marcelo Rossi, Fernanda Monteiro, Gislene Amirato, Carlos Santos, Mauro Vaisberg, Rodolfo Vieira, André Bach

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

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

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

Pre-congress content

**E-poster session: Exercise tolerance and functional status across respiratory diseases**

- **Disease(s):** Airway diseases, Interstitial lung diseases, Sleep and breathing disorders, Thoracic oncology, Respiratory critical care
- **Method(s):** Transplantation, Pulmonary rehabilitation, Physiology, Epidemiology, General respiratory patient care, Respiratory intensive care, Public health
- **Chairs:** Fabio Pitta (Londrina, Brazil), Inga Jarosch (Schönau am Königssee, Germany)

**Deoxygenation recruitment patterns of abdominal and neck muscles during four bed exercises**
Wendy Darlene Reid (Toronto (ON), Canada), Arjun Patel, Zacherie Bergeron, Andrew Ho, Tongyu Shi, Marcellle Campos, Ewan Goligher, Laurent Brochard

**Incremental shuttle walking test evaluates the maximal exercise capacity of patients with lynchangieliomyomatosis**
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 Fernandes Carvalho

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

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

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

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

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

**Functional tests for adults with asthma: validity, reliability, minimal detectable change and feasibility.**
Karina Couto Furlanetto (Londrina (PR), Brazil), Joice Mara De Oliveira, Thamyres Sposito, Diery Rugila, Natielly Beatriz Soares Correa, Denner Idemar Feitosa De Melo, Jússica Priscila Da Conceição Silva, Alcindo Cerci Neto, Fatima Mitsie Chibana Soares, Fabio Pitta

**Changes in functional exercise capacity, dyspnea, quadriceps muscle endurance, physical activity levels and risk of falling in elderly patients with asthma**
Elif Develi (Istanbul, Turkey), Batuhan Kayahan, Asli Yeral, Deniz Aslan, Rasmi Muammer, Yasar Kucukardali

**Evaluation of functional exercise capacity using two-field test in lung cancer patients**
Naciye Vardar Yağlı (Ankara, Turkey), Kübra Kılıç, Melda Saglam, Ebru Çalış Küütükçü, Deniz Inal Ince, Saadettin Kilückap
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, Aydın Çitaş, Mustafa Benekli

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

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

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

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

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

Evaluation of functional capacity and pulmonary functions during acute pulmonary exacerbation in children with cystic fibrosis
Kübra Kılıç (Konya, Turkey), Naciye Vardar-Yagli, Melda Saglam, Deniz Inal-Ince, Ebru Yalcin, Dilber Ademhan-Tural, Deniz Dogru

The effect of bronchodilators in the exercise capacity and thoracoabdominal mechanics of subjects with bronchiectasis: a randomized crossover, double-blinded, placebo-controlled trial
Douglas Silva Queiroz (São Paulo, Brazil), Cibele C B Marques Da Silva, Rodrigo A Athanazio, Simone Dal Corso, Samia Rached, Adriana C Lunardi, Renato Vitorasso, Henrique T Moriya, Alfredo Fonseca, Celso Rf Carvalho

Pre-congress content Session 00:00 - 23:59
E-poster session: New insight into the immunology of asthma and COPD
Disease(s): Airway diseases
Method(s): Cell and molecular biology  Physiology  Pulmonary function testing
Chairs: Philip Hansbro (Sydney, Australia), Chair to be confirmed

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

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 Gasiuniene, Brigita Sitkauskiene

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

Less eosinophilic inflammation and goblet cell metaplasia in IL-33-treated, diet-induced obese mice
Atsushi Kurokawa (Tokyo, Japan), Mitsuko Kondo, Sigeru Ashino, Mayoko Tsuji, Mami Orimo, Tomohiro Akaba, Ken Arimura, Kiyoshi Takeyama, Etsuko Tagaya

Deficiency of CAR S2, 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, Yuko Okuyama, Naoto Ishii, Takaaki Akaie, Hisatoshi Sugiura, Masakazu Ichinose

The effects of Rosae Multiflorae fructus extract on allergic rhinitis: animal experiments and clinical trials
Hee Soon Shin (Wanju-gun, Republic of Korea)
Gut microbial modulation attenuates emphysema development by suppressing inflammation and apoptosis
Se Hee Lee (Seoul, Republic of Korea), Yoon Ok Jang, Jong Jin Choi, Yeon-Mok Oh, Sei Won Lee

BMI is reduced in COPD.
Xin Yao (Nanjing (Jiangsu), China), Wu, Ian Adock

Immunotherapeutic strategy with mesenchymal stem cells modulating inflammation in an experimental model of COPD.
Auriléia Aparecida De Brito Léia (Vargem Grande Paulista, Brazil), Cristiano Rodrigo Alvarenga-Nascimento, 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 Vallès, Valeria Tubita, Irina Bobolea, Antonio Valero, Joaquim 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 dehydrodieneugenol on neuroinflammation and behavior changes in mice with mixed granulocytic chronic airway inflammation
Pamela Maria Araujo Morera (Santos, SP, Brazil), Jose Ivo Araujo Beserra-Filho, Beatriz Soares, Vitor Ponci, Maria Aparecida Oliveira, Rafael Herling Lambertiucci, Nathalia Montouro Pinheiro, Wothan Tavares-De-Lima, João Henrique G Lago, Alessandra Mussi Ribeiro , Carla Máximo Prado

Co-exposure to house dust mite and chlorine gas induce lung injury
Isabella Santos De Genaro (São Paulo (SP), Brazil), Felipp Costa Pinto De Andrade, Bruna Schaeffler, Suellen Karoline Moreira Bezerra, Francine Maria De Almeida Almeida, Rebeca Roberta Campos Medeiros, Wellyda Priscilla Da Silva, Laura Carvalho Tavares Lazarin, Kaique Alves De Araújo, João Vitor De Oliveira Cirillo, Rodolfo Paula Vieira, Milton De Arruda Martins, Iolanda Calvo Tibério, Beatriz Manguereira Saravia-Romanhelo

IL22 enhances rhinovirus-induced anti-viral responses in bronchial epithelial cells potentially involving TLR3
Beatrice Fageräng (Lund, Sweden), Mandy Menzel, Lena Uller

Rhinovirus-induced cytokine production of circulating leukocytes is reduced in severe asthma
Kaschin Jamal Jameel (Bochum, Germany), Sarah Yanik, Eike Bülthoff, Faisal Yusuf, Birute 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
Cynthia Koziol-White (New Brunswick, United States of America), Gaoyuan Cao, Vishal Parikh, Brian Deeney, Joshua Vieth, Cherie Ng, Jeanette Ampudia, Stephen Connelly, Jana Badrani, Taylor Doherty, Reynold Panettieri

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

Pre-congress content

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), Chair to be confirmed

Late Breaking Abstract - Early exploratory use of omic approaches to assess metabolite changes in COPD
Keir E. Lewis (Llanelli (Dyfed), United Kingdom), Tina Kramarić, Sarah Thomas, Katie Love, Ian Bond, David Rooke, Luis Mur

Late Breaking Abstract - Proteomic changes in respiratory tract lining fluid associated with smoking
Spela Kokelj (Göteborg, Sweden), Jörgen Östling, Benjamin Georgi, Henrik 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 Lafranchi, 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 - 2019 - Mitochondrial dysfunction induce immunoproteasome and MHC class I responses in lung aging

Genetic analyses in chr11p15.5 region identify MUC5AC and MUC5B associated with asthma
Xingnan Li (Tucson, United States of America), Stephanie Christenson, Huashi Li, Prescott Woodruff, William Busse, Mario Castro, Serpel Erzurum, John Fahy, Benjamin Gaston, Elliot Israel, Nizar Jarjour, Bruce Levy, Wendy Moore, Naftali Kaminski, Sally Wenzel, Eugene Bleecker, Deborah Meyers

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

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

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

Pre-congress content

Session 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: Lise Piquilloud (Lausanne, Switzerland), Chair to be confirmed

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

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

Late Breaking Abstract - Early ICU physiotherapy on 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), Janinta C. De Vries, Sofia Mayer, Hartmut Schneider

Late Breaking Abstract - A aerodynamic SARS-CoV-2 transport in non-invasive ventilatory support methods: a passive tracer study
Rutger Hebbink (Einschede, 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 Preisssner (Clayton, Australia), Seia Yen, Ellen Bennett, Andreas Fouras, Peter Dargaville, Graeme Zosky, Stephen Dubsky

Flow-controlled ventilation (FCV) improves regional ventilation in obese patients with diabetis type 1 and 2
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Dmytro Dmytryiev, Kateryna Dmytryieva

Gabapentin as add-on to fentanyl and midazolam in patients receiving mechanical ventilation: a randomized, blinded study
Bahador Bagheri (Tehran, Islamic Republic of Iran), Sara Salarian, Bahar Taherkhanchi
Prognostic value of Nutric score in critically ill patients with lung cancer
Andriani Charpidou (Athens, Greece), Effrosyni Filiou, Nikoletta Rovina, Dimitrios Vassos, Matthaios Katsaras, Stamatis Tsipilis, 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

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 Muitiz (Badalona (Barcelona), Spain), Irene Aldás Criado, Blanca Urrutia Royo, Carlos Folgado, Maria Sol Prats Bradai, 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 Hirotta, Guadalupe Nery Sant’Anna, Juliana Barbosa Goulardins, Lucas Macedo Santos, Thabata Caetano, Clara Hikari Ito, Caroline Gomes Mól, Rita Pavione Rodrigues, Abrahão Fontes Baptista, Clarice Tanaka

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

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

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

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

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

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

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

E-poster session: Clinical monitoring and new therapies for cystic fibrosis
Disease(s): Airway diseases, Sleep and breathing disorders
Method(s): General respiratory patient care, Public health, Pulmonary rehabilitation, Imaging, Physiology, Pulmonary function testing, Epidemiology, Cell and molecular biology
Chairs: Mirjam Stahl (Berlin, Germany), Florian Singer (Bern, Switzerland)

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

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

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

Shedding light into the black box of infant multiple-breath washout
Marc-Alexander Oestreich (Bern, Switzerland), Florian Wyler, Philipp Latzin, Kathryn Ramsey
Multicenter feasibility of lung clearance index in preschool children with cystic fibrosis and other lung diseases

Mirjam Stahl (Berlin, Germany), Cornelia Joachim, Tatjana Uselmann, Yin Yu, Ines Kirsch, Christiane Berger, Cornelia Stolpe, Rebecca Minso, Isa Rudolf, Nadine Alfeis, Lena Liboschick, Dunja Tennenhardt, Alena Steinmetz, Xenia Bovermann, Jobst Röhmel, Klaudia Unorji-Frank, Friederike Dörfler, Claudia Rückes-Nilges, Bianca Von Stoutz, Luz Nachtrich, Matthias Kopp, Anna-Maria Dittrich, Olaf Sommerburg, Marcus Mall

“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 Ozelik, Nural Kiper

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

Performance of impulse oscillometry and spirometry for the diagnosis of acute exacerbations of cystic fibrosis in adults

Timothée Blin (Tours, France), Thomas Flament, Julie Manikian, Arnaud Chambellan, Sylvain Marchand Adam, Laurent Plantier

Sleep duration and activity of exacerbated and non-exacerbated cystic fibrosis patients during their hospital stay

Carolin-Maria Linker (Dortmund, Germany), Svenja Stratburg, Sarah Dietz-Terjung, Matthias Welsner, Sebastian Brato, Christian Taube, Christoph Schöbel, Jürgen Götz, Gerhard Weinreich

Rescue of CFTR function impaired by mutations in exon 15

Kelly Martinovich (Perth (WA), Australia), Anthony Kicic, Sue Fletcher, Steve Wilton, Steve Stick, On Behalf Of Arest-Cf, & Waerp

A retrospective observational study: Bidirectional pharmacokinetic interactions between ivacaftor-lumacaftor in cystic fibrosis

Elena Schneider (Parkville (VIC), Australia), Patrick Hanafin, Gauri Rao

Clinical response to elexacaftor/tezacaftor/ivacaftor for cystic fibrosis patients in a compassionate use setting

Regina Hofland (Zeist, Netherlands), Bente Aalbers, Inez Bronsveld, Marian Kruiswijk, Suzan Schotman, Harry Heijerman

Assessment of Lumacaftor/Ivacaftor therapy on physical activity and exercise tolerance in adults with cystic fibrosis

Daniela Savi (Rome, Italy), Alessandro Porcella, Andrea Gramigna, Marcello Di Paolo, Marco Vicenzi, Irene Rota, Carlotta Biglia, Barbara Messore, Emanuela Leggieri, Francesca Blasi, Paolo Palange

Nasal high-flow therapy (NHFT) during exercise in patients with cystic fibrosis (CF): a randomized crossover trial

Giulia Spoletini (Leeds (West Yorkshire), United Kingdom), Ruth Watson, Kim Pollard, Wang Yng Lim, Christine Etherington, Ian Clifton, Daniel Peckham

Vitamin D status correlates with lung function in children and adolescents with cystic fibrosis

Elena Zhekaite (Moscow, Russian Federation), Elena Kondratyeva, Anna Voronkova, Viktoria Sherman, Roman Budzinsky, Aisa Zodbinova, Yulia Melyanovskaya

European Cystic Fibrosis Society Clinical Trials Network (ECFS-CTN): structure and impact since 2009

Silke Van Koningsbruggen-Rietschel (Cologne, Germany), Damian G. Downey, Lieven Dupont, Fiona Dunlevy, Veerle Bulleel, Kate Hayes, Nick Simmonds, Nadine Dufeu, Hettie M. Janssens, Dorota Sands, Paola De Carli, Isabelle Sermet-Gaudelus, Kris De Boeck, Tim Lee, Isabelle Fajac

Is Pulmonary Medication Adherence affected by disease severity among adult patients with Cystic Fibrosis?


Efficacy and safety of oral sildenafil in cystic fibrosis children with mild to moderate lung disease

Seyed Javad Sayedi (Mashhad, Islamic Republic of Iran), Mohsen Reisi, Mohammad Reza Modaresi, Zahra Aghaii, Seyed H. Mirlohi, Hosein Rafiemanesh, Gholamreza Azizi

Pre-congress content

Session 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: Chair to be confirmed
E-poster session: Pheno types 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)

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

**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 Grimbaldeston, Christopher Brightling, Mona Bafadhel, Carrie Rosenberger

**Characterisation of patients hospitalised for asthma exacerbations in Hong Kong**
Ka Pang Chong (Hong Kong, Hong Kong), Fanny Sai So 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 Kong, Wai Kin Choo, Wai Kei Lam, Chun Man Wong, Sheng Sheng Alice Ho, Chun Tat Lun, Christopher Kei Wai Lai

**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

**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

**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

**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

**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
Cytokine plasma levels in moderate-to-severe asthmatic children with different asthma control
Svetlana Smirnova (Krasnoyarsk, Russian Federation), Nina Gorbacheva, Vasily Belenyuk, Svetlana Zobova, Marina Smolnikova

Neutrophilic asthma features increased airway classical monocytes
Michael Fricker (New Lambton Heights (NSW), Australia), Natalie Niessen, Katherine Baines, Jodie Simpson, Hayley Scott, Peter Gibson

Sputum mast cells associate with clinical and inflammatory features of asthma
Michael Fricker (New Lambton Heights (NSW), Australia), Ling Qin, Natalie Niessen, Katherine Baines, Hayley Scott, Jodie Simpson, Peter Gibson

Mechanisms of FeNO Non-Suppression in Severe Asthma: A Analysis of Sputum Type 2 Cytokines and Chemokines
Simon Couillard (Oxford, United Kingdom), Rahul Shrimanker, Gareth Hynes, Catherine Borg, Clare Connolly, Anna Hayman, Sarah Poole, Angela Moran, Timothy Powell, Ian Padvor, Timothy Hinks

Assessing permeability biomarkers of dual responders in allergic asthmatics
Nicole van der Burg (Lund, Sweden), Henning Stenberg, Zuzana Diamant, Leif Bjermer, Ellen Tutvesson

Chronic Cough is associated with higher levels of Systemic Immune Inflammation Index
Johnmary T. Arinze (Rotterdam, Netherlands), Leila Karimi, Emmely W. De Roos, Jesse Fest, Katia M. C. Verhamme, Bruno H. Stricker, Guy G. Brusselle

Chronic oral corticosteroids use and persistent eosinophilia in severe asthma. The Belgian Severe Asthma Registry.
Sophie Graff (Liège, Belgium), Sibren Vanwynsbergh, Guy Brusselle, Shane Hanon, Carine Sohy, Lieven Dupont, Rudi Pecahe, Alain Michils, Charles Pilet, Guy Joos, Renaud Louis, Florence Schleich

Is CCL18 a potential biomarker of type-2 asthma?
Helen Fouquet (Prey, France), Jonathan Giovannelli, Patricia De Nadaï, Joanne Balsamelli, Patrick Berger, Arnaud Bourdin, Pascal Chanez, Stephanie Fry, Thierry Perez, Antoine Magnan, Marina Pretolani, Camille Taillé, Anne Tsicopoulos, Cécile Chenivesse

Dupilumab reduces blood and nasal biomarkers of type 2 inflammation in patients with chronic rhinosinusitis with nasal polyps with and without comorbid asthma: SINUS-52 trial
Claus Bachert (Ghent, Belgium), Joaquim Mullol, Nadia Daizadeh, Kelley Wolfe, Benjamin Ortiz, Robert Johnson, Yamo Deniz, Paul Rowe, Leda Mannent, Nikhil Amin, Sivan Harel, Alexandre Jagerschmidt

Pre-congress content Session 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

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 Amlin

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 Vaidyanathan (Lieve, Belgium), Julien Guiot, Fadila Zerka, Primakov Sergey, L Deprez, D Dantin, 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 Kumar (Mansa (Punjab), India), Vinita Jindal, Tanvir Sidhu, Avar 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), Ashwini Maudhoo, Ashwin Sundaram, Victoria Taylor, Emma Lombard, Hannah Gardiner, Natasha Benons, Anne Dunleavy, Adrian Draper, Dagan Lonsdale, Yee-Ean Ong

Late Breaking Abstract - Co-infections, an unexplored branch in the COVID-19 pandemic.
David Noivo (Peniche, Portugal), Ana Alfaiaete, 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 Reychler, Frederic Duprez, Giuseppe Liistro, Leila Belkhir, Lucie Pothen, Hall Yildiz, Jean-Cyr Yombi, Julien De Gref

Late Breaking Abstract - Atypical clinical and radiological presentation of SARS-CoV-2 infection in the elderly.
Antonella Arcadu (Forlì (FC), Italy), Silvia Puglisi, Alessandra Dubini, Sara Piciucchi, Fabio Sultani, Sabrina Martinello, Lara Bertolovic, Stefano Oldani, Luca Donati, Christian Gurioli, Claudia Ravaglia, Venerino 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 Alfaiaete (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
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<tr>
<th>Channel 1</th>
<th>Session</th>
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<tbody>
<tr>
<td>Assembly members' meeting: Assembly 1 General pneumology</td>
<td>Chairs: Hilary Pinnock (Edinburgh, United Kingdom), Ioannis Vogiatzis (Newcastle upon tyne (Tyne and Wear), United Kingdom)</td>
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<tr>
<td>Assembly members' meeting: Assembly 4: Sleep and breathing disorders; and clinical physiology</td>
<td>Chairs: Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris, France)</td>
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<th>Channel 7</th>
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<td>Assembly members' meeting: Assembly 7: Paediatrics</td>
<td>Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jonathan Grigg (London, United Kingdom)</td>
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<tr>
<td>Assembly members' meeting: Assembly 2: Respiratory intensive care</td>
<td>Chairs: Marcus Schultz (Amsterdam, Netherlands), Leo Heunks (Amsterdam, Netherlands)</td>
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<tr>
<td>Assembly members' meeting: Assembly 3: Basic and translational sciences</td>
<td>Chairs: Catherine Greene (Dublin 9, Ireland), Silke Meiners (München, Germany)</td>
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<tr>
<td>Assembly members' meeting: Assembly 5: Airway diseases, asthma and COPD</td>
<td>Chairs: Omar S. Usmani (London, United Kingdom), Antonio Spanevello (Milan, Italy)</td>
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<tr>
<td>Assembly members' meeting: Assembly 6: Epidemiology and environment</td>
<td>Chairs: Christer Janson (Uppsala, Sweden), Charlotte Suppli Ulrik (Virum, Denmark)</td>
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<th>Channel 2</th>
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<tr>
<td>Assembly members' meeting: Assembly 9: Allied respiratory professionals</td>
<td>Chairs: Martijn A. Spruit (Horn, Netherlands), Daniel Langer (Leuven, Belgium)</td>
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<tr>
<td>Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation</td>
<td>Chairs: Federica Meloni (Pavia (PV), Italy), Stefano Elia (Roma (RM), Italy)</td>
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<tr>
<td>Assembly members' meeting: Assembly 12: Interstitial lung diseases</td>
<td>Chairs: Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece)</td>
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<tr>
<td>Assembly members' meeting: Assembly 13: Pulmonary vascular diseases</td>
<td>Chairs: Anton Vonk Noordegraaf (Amsterdam, Netherlands), Marion Delcroix (Leuven, Belgium)</td>
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<td>Assembly members' meeting: Assembly 11: Thoracic oncology</td>
<td>Chairs: Torsten Gerriet Blum (Berlin, Germany), Jan van Meerbeeck (Edegem (Antwerp), Belgium)</td>
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<tr>
<td>Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy</td>
<td>Chairs: Jouke T. Annema (Amsterdam, Netherlands), Walter De Wever (Leuven, Belgium)</td>
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<td><strong>Assembly members' meeting: Assembly 10: Respiratory infections</strong></td>
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<td><strong>Chairs:</strong> Eva Polverino (Barcelona, Spain), Graham H. Bothamley (London, United Kingdom)</td>
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### Studio Paris Session 09:30 - 10:30

**Symposium: New developments in pandemic medicine**

An update from the PREPARE EU research project

**Aims:** To describe the latest developments in antiviral therapy for influenza and the growing clinical problem of arbovirus infection in Europe; to evaluate the rationale for adaptive trials investigating critical care interventions in a pandemic; and to describe a collaborative strategy for increasing clinical and research capacity in Europe for pandemic care.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Pathologist, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational)

**Chairs:** Tobias Welte (Hannover, Germany), Elisabeth H.D. Bel (Amsterdam, Netherlands)

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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>Antiviral therapy for influenza: latest trial results</td>
<td>Christopher Butler (Oxford (Oxfordshire), United Kingdom)</td>
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<td>09:45</td>
<td>New approaches to designing trials for pandemics: setting up an adaptive trial for management strategies in community acquired pneumonia</td>
<td>Lennie P. G. Derde (Utrecht, Netherlands)</td>
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<td>09:55</td>
<td>ISARIC Covid-19 pandemic research response, tools and outcomes from clinical characterisation studies</td>
<td>Louise Sigfrid (Brighton (East Sussex), United Kingdom)</td>
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<td>10:05</td>
<td>Developing a pandemic strategy: building long-term research capacity and resilience in Europe</td>
<td>Speaker to be confirmed</td>
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<td>10:15</td>
<td>Discussion and Q &amp; A</td>
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### Studio Vienna Session 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:** Daiana Stolz (Basel, Switzerland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Walter De Wever (Leuven, Belgium)

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<tr>
<th>Time</th>
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<td>09:30</td>
<td>Introduction</td>
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<td>09:35</td>
<td>Deep learning and its applications to lung imaging</td>
<td>Maria Vakalopoulou (Saint-Aubin, France)</td>
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<td>09:55</td>
<td>Discussion and Q &amp; A</td>
<td>Maria Vakalopoulou (Saint-Aubin, France)</td>
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<td>10:05</td>
<td>Artificial intelligence in lung cancer: where are we now?</td>
<td>Speaker to be confirmed</td>
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<td>10:25</td>
<td>Discussion and Q &amp; A</td>
<td>Speaker to be confirmed</td>
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<td>10:35</td>
<td>The future is here in thoracic oncologic imaging: role of radiogenomics</td>
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<tr>
<td>10:55</td>
<td>Discussion and Q &amp; A</td>
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Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases
Adám Domonkos Tárnoki (Budapest, Hungary), David Laszlo Tarnoki (Budapest, Hungary)

Discussion and Q&A
Adám Domonkos Tárnoki (Budapest, Hungary), David Laszlo Tarnoki (Budapest, Hungary)

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

Method(s): Respiratory critical care, Airway diseases

Late Breaking Abstract - Positive end-expiratory pressure affects geometry and function of the human diaphragm
Diana Jansen (Herpen, Netherlands), Annemijn H. Jonkman, Hedj J. De Vries, Tim Marcus, Coen A. C. Ottenheijm, Leo M. A. Heunks

Late Breaking Abstract - Mesenchymal stromal cells as a salvage treatment for persistent ARDS
Haijin Lyu (China), Jianrong Liu, Xiaomeng Yi, Xiaofeng Yuan, Yuling An, Xuxia Wei, Yanhong Wang, Ying Xian, Huimin Yi

Gender differences in tidal volume limitation - an ICU database analysis
Pien Swart (Amstelveen, Netherlands), Marcus J. Schultz, Ary Serpa Neto

Diversity of the lung mycobiome is associated with severity of disease in acute respiratory distress syndrome
Noel Britton (Pittsburgh, United States of America), Georgios Kitsios, Adam Fitch, Barbara Methe, Bryan Mevery, Alison Morris

Time to advanced airway management and neurologically favorable survival after out-of-hospital cardiac arrest
Tatsuna Fukuda (Okinawa, Japan), Naoko Ohashi-Fukuda, Yutaka Kondo, Hiroshi Sekiguchi, Iehiro Kukita

The predictive validity for mortality of driving pressure and mechanical power of ventilation
David van Meenen (Leiden, Netherlands), Ary Serpa Neto, Frederique Paulus, Coen Merkies, Laura Schouten, Lieuwe Bos, Janneke Horn, Nicole Juffermans, Olaf Cremer, Tom Van Der Poll, Marcus Schultz

Ventilation management in Asian middle-income countries
Luigi Pisani (Amsterdam, Netherlands), Ary Serpa Neto, Arjen Dondorp, Marcus J. Schultz

Patient ventilator asynchrony as a predictor of weaning failure in mechanically ventilated COPD patients.
Marwa Abdulmoez (assuit, Egypt), Maha Elkholy, Samiaa Sadek, Reham Elnorsheyd

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

Oral presentation: New clinical insights into idiopathic pulmonary fibrosis
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Monounsaturated Fatty Acid diet associates less gastrointestinal adverse events of pirfenidone: phase IV clinical trial
Eva Fontanilles Arbones (Hospital de Llobregat, Spain), Carlo Vancheri, Marlies S. Wijsenbeek (Rotterdam, Netherlands), Katerina Antoniou, Pilar Rivera, Francesco Bonella, Elisabeth Renzoni, Anne-Marie Anne-Marie, Vanesa Vicens-Zymunt, Guillermo Suarez-Cuartin, Jordi Dorca, Josep Palma, Anna Bachs, Victoria Avilés, Christian Tebé, Jess Shull, Maria Molina Molina

To be or not to be - the uncertainty of PF-ILD
Michael Kreuter (Heidelberg, Germany), Nicolas Kahn, Francesca Maria Sambataro, Claus Heussel, Gianluca Sambataro, Carlo Vancheri, Sebastian Emanuele Torrisi
Genetic susceptibility and manifestation of progressive fibrosing interstitial lung diseases.
Martina Sterclova (Praha, Czech Republic), Kateřina Sikorova, Martin Petrek, Martina Vasakova

Historical eye on idiopathic pulmonary fibrosis: redefining the mortality scenario.
Sara Tomassetti (Forli, Italy), Claudia Ravaglia, Athol Wells, Martina Marchi, Antonella Arcadu, Silvia Puglisi, Luca Donati, Alessandra Dubini, Sara Picciucci, Jay Ryu, Catherine Klersy, Venerino Poletti

Development of an artificial intelligence software to detect interstitial pneumonias
Hirotaka Nishikiori (Sapporo, Japan), Hirofumi Chiba, Kenichi Hirota, Tomohiro Suzuki, Seiwa Honda, Naoya Yama, Kimiyuki Ikeda, Yuki Mori, Yuichiro Asai, Naomi Koyama, Koji Kuronuma, Masamitsu Hatakenaka, Hiroki Takahashi

Channel 3
Session 09:30 - 10:30
Oral presentation: Metabolic alterations and ageing in lung disease
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: Suzanne Cloonan (New York City, United States of America), H. Irene Heijink (Groningen, Netherlands)

LSC - 2019 - Epithelial-mesenchymal transition induced by cigarette smoke in lung epithelial cells is associated with metabolic reprogramming and senescence

LSC - 2019 - Fluorescence-activated cell sorting of senescent fibroblasts

LSC - 2019 - Investigating the effect of Z alpha-1 antitrypsin expression on mitochondrial injury

LSC - 2019 - Altered metabolic activity and redox balance are associated with a proliferative phenotype in COPD airway smooth muscle cells.

Metabolic differences in bronchial epithelium from asthma patients and impact of bronchial thermoplasty
Abilash Ravi (Leiden, Netherlands), Annika Goorsenberg, Annemiek Dijkhuis, Barbara Dierdorf, Tamara Dekker, Yanaika Sabogal Pijeros, Peter J. Sterk, Frédéric Vaz, Jouve Annema, Peter Bonta, Rene Lutter

Altered iron metabolism and elevated cellular senescence in COPD small airway epithelial cells

Impaired NK activity in the IPF lungs.
Tamara Cruz (Barcelona, Spain), Minxue Jia, Tracy Tabib, John Sembrat, Nayra Cardenes, Tullia Bruno, Ana Mora, Robert Lafyatis, Takis Benos, Mauricio Rojas

Channel 2
Session 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: Chair to be confirmed

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 Kornmann, Richard Leigh, Irvin Meyers, Hendrik Watz, Sarah Grant, Monish Jain, Maciej Cabanski, Peter Pertel, Ieuan Jones, Jean Lecot, Paul O’Byrne

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 Teijeiro

Late Breaking Abstract - Cardiovascular adverse events of drugs targeting IL-5 in severe asthma: a pharmacovigilance study
Jean Baptiste Quinta (Le Lamentin, Martinique), François Montastruc, Vanessa Rousseau, Agnès Sommet, Anthony Touafia, Michel Galinier, Laurent Guilleminauld

Pharmacogenetics of inhaled corticosteroid response in adults with asthma
Mohamed Ahmed Edris (Belgium), Emmely 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? 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), Lei Fang, Daiana Stolz, Michael Tamm, Michael Roth

**Inflammatory phenotypes of asthma determine effect of inhaled corticosteroids on anti-viral immunity**
Mandy Menzel (Lund, Sweden), 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 Bornsund, Carl-Magnus Claussen, Jonas S Erjefält, Celeste Porsbjerg

**Risankizumab in severe asthma: A Phase IIa, placebo-controlled study**
Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Parameswaran Nair, Renaud Louis, Dave Singh

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**Channel 1**

**Session**

**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), Ayse 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**
Speaker to be confirmed

**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**

**ERS advocacy priorities: air pollution, lung cancer screening, new nicotine delivery products and others**
Ayşe Arzu Yorgancioğlu (Izmir, Turkey)

**10:15**

**Outdoor air pollution and the burden of childhood asthma across Europe**
David Rojas-Rueda (Barcelona, Spain)

**10:35**

Discussion and Q & A

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**Studio Madrid**

**Session**

**09:30 - 10:30**

**State of the art session: Paediatric respiratory diseases**

**Aims**: To describe current information about four important paediatric respiratory areas and to highlight future changes in diagnosis and management.
### Symposium Paris: Antibiotic resistance: the way forward

**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)

#### Session 10:40 - 11:40

- **09:30** Introduction
- **09:35** Congenital malformations  
  Petr Pohunek (Praha, Czech Republic)
- **09:45** Bronchiolitis obliterans  
  Geoffrey Kurland (Pittsburgh, PA, United States of America)
- **09:55** Assessing and improving the lung function growth trajectory in infants and children  
  Peter D. Sly (Brisbane (QLD), Australia)
- **10:05** Sleep disordered breathing and non invasive ventilation  
  Brigitte Fauroux (Paris, France)
- **10:15** Discussion and Q&A

### Symposium Madrid: 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)

#### Session 10:40 - 11:40

- **09:30** Introduction
- **09:35** Patient perspective: video  
  Barbara Crossley (Buxton, United Kingdom)
- **09:50** Antibiotics kill some but not all pathogens: persistent populations and how they arise  
  Speaker to be confirmed
- **10:00** Better diagnostics for targeted antibiotic therapy  
  Speaker to be confirmed
- **10:10** Improving the innate immune response in respiratory infections: the use of repurposed drugs  
  Victor Nizet (La Jolla, United States of America)
- **10:20** Biofilms and how to combat them: examples from cystic fibrosis  
  Speaker to be confirmed
- **10:30** Discussion and Q&A
### 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), Chair to be confirmed

#### 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

#### Echocardiographic predictors of stress induced right ventricular diastolic dysfunction in non-severe chronic obstructive pulmonary disease

Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

#### Autonomic dysfunction, cardio-pulmonary parameters and masked heart failure in non-severe chronic obstructive pulmonary disease

Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

#### Assessing cardiocirculatory compensation capacity in COPD: impact of disease severity.

Ruddy Richard (Clermont-Ferrand, France), Aurélien Mulliez, Ludvine Boudieu, Julienne 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

Ricardo Gass (Porto Alegre, Brazil), Franciele Plachi, Talmir Ribeiro Nolasco, Nathalia Mendes, Paulo T Muller, Marli M Knorst, Jose Alberto Neder, Danilo C Berton

#### Electrocardiographic changes and cardiac ischemia in lowlanders with COPD travelling to 3100m

Arcangelo Friedrich Carta (Zürich, Switzerland), Michael Furian, Mona Lichtblau, Konstantinos Bitos, Simon Raphael Schneider, Maamed Mademilov, Ulam 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

### Oral presentation: The hot and cold of interventional pulmonology

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs:** Michael Tamm (Basel, Switzerland), Chair to be confirmed
Targeted lung denervation in patients with moderate to severe COPD: AIRFLOW-2 crossover patient outcomes.

Pre-treatment lung function decline stabilizes up to 3 year after targeted lung denervation in COPD
Jorine E. Hartman (Groningen, Netherlands), Sonja W.S. Augustijn, Karin Klooster, Nick H.T. Ten Hacken, Dirk-Jan Slebos

Impact of endoscopic valve therapy on hypercapnia in patients with chronic hypercapnic failure based on a severe lung emphysema
Matthias Rötting (Rodenbach, Germany), Markus Polke, Katharina Kriegsmann, Nilab Sarmand, Ralf Eberhardt, Felix Herth, Daniela Gompelfmann

Endoscopic lung volume reduction with endobronchial valves in very low DLCO patients
Pavlina Lenga (Berlin, Germany), Christian Grah, Christoph Ruwwe-Glösenkamp, Jens-Carsten Rückert, Joachim Pfannschmidt, Stephan Eggeling, Sylke Kurz, Gunda Leschber, 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, Konstantinna Jkontogianni, Lonny Yarmus

Clinical management implications of histologic information provided by lung biopsy in the multidisciplinary evaluation of interstitial lung diseases.
Sara Tomassetti (Forli, Italy), Mauro Pavone, Claudia Ravaglia, Athol Wells, Carlo Vancheri, Elisabetta Rosi, Alberto Cavazza, Thomas Colby, Giulio Rossi, Jay Ryu, Silvia Puglisi, Antonella Arcadu, Alessandra Dubini, Sara Piciucchi, Federico Lavorini, Venerino Poletti

A randomised trial of transbronchial mediastinal cryobiopsy for the diagnosis of mediastinal disease
Ye Fan (China), Felix J.F. Herth, Zan-Sheng Huang, Jie-Ru Guo, Jing Zhang, Wan-Lei Fu

Channel 5  Session 10:40 - 11:40
Oral presentation: Quality improvements in lung function and sleep diagnostics
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Chairs: Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Rachel Ong-Salvador (Amsterdam, Netherlands)

Quality Improvement in a Sleep Clinic: To increase the capacity and reduce the time to treatment for patients with Obstructive Sleep Apnoea
Peter Coss (Dublin 8, Ireland), Alanna Martin, Orla Gavin, Rebecca Mc Loughlin, Tracey Matthews, Anne Marie Mc Laughlin

Early effect of Continuous Positive Airway Pressure therapy on Right Ventricular Function in patients with newly diagnosed Obstructive Sleep Apnoea
Peter Coss (Dublin 8, Ireland), Gerard King, Ross Murphy, Ann Marie Mc Laughlin

Quality control of cardiopulmonary exercise equipment
Tjeu Souren (Utrecht, Netherlands), Erwin De Bliek, Johan Roeykens, Kevin De Soomer, Ellie Oostveen

An RER of 1.05 should not be used to determine maximal effort during CPET
Max Thomas (Birmingham, United Kingdom), Karl Sylvester

A comparison of 3 sets of paediatric reference values for Cardio-Pulmonary Exercise Testing using cycle ergometry.
Paul Burns (Glasgow (Glasgow), United Kingdom), James Y Paton

Deep learning automates complete quality control of spirometric manoeuvre
Nilakash Das (Leuven, Belgium), Kenneth Verstraete, Marko Topalovic, Jean-Marie Aerts, Wim Janssens

Differences between % predicted and z-score. The impact on severity classification in spirometry.
Ana Silva (Queluz, Portugal), Andreia Descalço, Ângela Martins, Carolina Constant, Teresa Bandeira

Channel 2  Session 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
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<tr>
<td>Airway diseases, Respiratory critical care</td>
<td>Pulmonary function testing, Epidemiology, General respiratory patient care, Physiology, Public health</td>
<td>Stylianos Loukides (Athens, Greece), Chair to be confirmed</td>
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Collating data from major European population studies - The CADSET (Chronic airway disease early stratification) clinical research collaboration

Measurement of peripheral airspaces by nanoparticles in a group of 618 subjects
Jakob Lönndahl (Lund, Sweden), Madeleine Petersson Sjögren, Laura Aaltonen, Jonas Jakobsson, Hanna Nicklasson, Jenny Rissler, Per Wollmer

Comparison of spirometric markers of severity and reversibility in patients with asthma and/or COPD in NOVELTY
Rod Hughes (Sheffield (South Yorkshire), United Kingdom), Ricardo Del Olmo, Barry Make, David Price, Alvar Agusti, Eleni Rapsomaniki, Hana Müllervá, Jørgen Vestbo

Risk Score for Subclinical COPD: The NHLBI Pooled Cohorts Study
Surya Bhatt (Birmingham, United States of America), Pallavi Balte, Joseph Schwartz, Patricia Cassano, Paulo Chaves, David Couper, David Jacobs, Elina Jerschow, Ravi Kalhan, Robert Kaplan, Donald Lloyd-Jones, Anne Newman, George O'Connor, Jason Sanders, Benjamin Smith, Jason Umans, Wendy White, Sachin Yende, Elizabeth Oelsner

Validation of the codex index in patients with COPD enrolled in randomized clinical trials: A post-hoc analysis of the trilogy, trinity and tribute studies.
Pere Almagro (Terrassa, Spain), Paola Vaghi, Silva Tommasini, Diego González-Segura, Eva Topole, George Georges

Phenotypes, treatable traits, GOLD groups and grades - how they predict mortality risk in COPD patients? (data from the Czech Multicenter Research Database of COPD)
Kristian Brat (Brno, Czech Republic), Vladimir Koblizek, Michal Svoboda, Marek Plutinsky, Jaromír Zatloukal, Eva Volakova, Barbora Novotná, Patrice Popelkova, Tomas Dvorák, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vaník, Lucie Heribanova

### Channel 4 Session 11:50 - 12:50

**Challenging clinical cases: Interstitial lung diseases**

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Nurse, Radiologist

**Chairs:** Michael Kreuter (Heidelberg, Germany), Maria Molina Molina (Barcelona, Spain)

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<tr>
<td>11:50</td>
<td>Introduction</td>
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<td>11:55</td>
<td>A challenging complex complication in common variable immune deficiency</td>
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<td>12:01</td>
<td>Discussion and Q &amp; A</td>
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<td>12:06</td>
<td>Granulomatous lung disease in lymphoma patient after rituximab treatment</td>
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<td>12:12</td>
<td>Discussion and Q &amp; A</td>
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<td>12:17</td>
<td>A crazy conundrum</td>
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<td>12:23</td>
<td>Discussion and Q &amp; A</td>
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<td>12:28</td>
<td>A rare cause of recurrent pneumothorax</td>
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Studio Madrid  
Session  
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)

11:50 Introduction

11:55 Low dose inhaled corticosteroids (ICS) and short-acting beta-agonists (SABA) or long-acting beta-agonists (LABA) need in children and adolescents with asthma steps 1 and 2: what is the evidence?
Louise Fleming (London, United Kingdom)

12:05 Asthma treatment in step 3: the cases for adding LABA or doubling ICS
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom)

12:15 Comorbidities in asthma: the role of obesity in children with asthma
Erick Forno (Pittsburgh, United States of America)

12:25 From guidelines to personalized treatment of children with asthma
James Y. Paton (Glasgow (Glasgow), United Kingdom)

12:35 Discussion and Q&A
Journal session: The European Respiratory Journal editor's view: our best papers of last year

Aims: To present the best papers published in 2019–2020 in the European Respiratory Journal (ERJ) in the fields of paediatric pulmonology, pulmonary infections, thoracic oncology and airways diseases; and to provide experts' opinions about the importance of these articles.

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Thoracic oncologist

Chairs: Elisabeth H.D. Bel (Amsterdam, Netherlands), Tobias Welte (Hannover, Germany)

11:50 Introduction
Martin Kolb (Hamilton (ON), Canada)

11:55 The best papers in the ERJ: infectious diseases in the respiratory system
Grant Waterer (Perth (WA), Australia)

12:05 The best papers in the ERJ: paediatric pulmonary diseases
Claudia E. Kuehni (Bern, Switzerland)

12:15 The best papers in the ERJ: chronic airways diseases, including asthma and COPD
Mina Gaga (Athens, Greece)

12:25 The best papers in the ERJ: malignant thoracic disorders
Jose Porcel (Lleida, Spain)

12:35 Discussion and Q&A

12:45 Conclusion
Martin Kolb (Hamilton (ON), Canada)
**Channel 3**

**Session**

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), Chair to be confirmed

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**Differential mast cell activation by transcriptomic signature analysis in the U-BIOPRED severe asthma cohort**

Angelica TIOTIU (Nancy, France), Yusef Badi, Nazanin Zoumenat Kermani, Phillip Hansbro, Craig Wheelock, Sven-Erik Dahlen, Yi-Ke Guo, Peter Sterk, Ratko Djukanovic, Ian Adcock, Fan Kian Chung

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**Alteration of Plasma Exosome Content in A cute 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

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**Role of hypercapnia-induced intracellular calcium kinetics in airway smooth muscle contractility.**

Masahiko Shigemura (Chicago, United States of America), David Phelan, Lynn Welch, Laura Dada, Emilia Lecuona, Jacob Sznajder

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**Impact of histaminergic H3 receptor antagonist on hypoglossal nucleus in chronic intermittent hypoxia conditions**

Liang Xie (Shanghai, China), Shanqun Li

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**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 Rootj, E. Citgez

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**LSC - 2019 - Transcriptome signatures of tobacco carcinogens hint the alteration of TAF6 as a specific feature in smokers lung cancer**

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**Channel 5**

**Session**

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:** Rafael E. de la Hoz (New York, United States of America), Chair to be confirmed

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**The mediating role of lung function on air pollution-induced cardiopulmonary mortality**

Andrea Dalecka (Ostrava, Czech Republic), Claudia Wigmann, Hieran Alltug, Sara Kress, Vitězslav Jiřík, Joachim Heinrich, Michael Abramson, Tamara Schikowski

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**Foetal exposure to heavy metals and risk of asthma and allergic diseases in early childhood: a population-based birth-cohort study**

Isabella Annesi Maesano (Paris, France), Giancarlo Pesce, Nour Baiz, Guy Huel

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**Change in body mass index and expiratory flow in World Trade Center workers**

Rafael E. de la Hoz (New York, United States of America), Amaal Alruwaily, Akshay Sood, Xiaoyu Liu, John Doucette, Yunho Jeon, Juan Celedón

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**Occupational exposure and new onset asthma in the Telemark study: a five-year follow up.**

Nikola Zivadinovic (Skien, Norway), Geir Klepaker, Martin Veel Svendsen, Toren Kjell, Paul Henneberger, Johny Kongerud, Anne Kristin Möller Fell

---

**IPF risk: two's company, three's a crowd? Asbestos exposure, cigarette smoke, and MUC5B promoter polymorphism rs35705950. Findings from the idiopathic pulmonary fibrosis job exposures study (IPFJES).**

Carl Reynolds (London, United Kingdom), Vyshnavi Thanaraj, Rupa Sisodia, Chris Barber, Paul Cullinan
Using digital and social media to highlight the risks of occupational exposures as a cause of lung diseases
David Fishwick (Sheffield (South Yorkshire), United Kingdom), Emma Thompson, Dick Heederik, Martie Van Tongeren, Sara De Matteis, Saskia Weldam, Jade Sumner, Dan Smyth, Ewelina Szmytke, Paul Blanc, Pippa Powell

**Studio Vienna**

**Session**

11:50 - 12:50

**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), Walter De Wever (Leuven, Belgium), Chair to be confirmed

**Discussants:** Dave Singh (Manchester, United Kingdom)

**11:50**

Introduction and presentation by the session facilitator
Dave Singh (Manchester, United Kingdom)

**11:54**

Case 1 - Author: Lennart H. Conemans (Netherlands)

**12:04**

Discussion and Q & A

**12:08**

Case 2 - Author: Anna Trojnar (Poland)

**12:18**

Discussion and Q & A

**12:22**

Case 3 - Author: Abdul Majeed Arshad (India)

**12:32**

Discussion and Q & A

**12:36**

Case 4 - Author: Yuri De Deus Montalverne Parente (Brazil)

**12:46**

Discussion and Q & A

**Channel 1**

**Session**

11:50 - 12:50

**Respiratory medicine meets other disciplines: Breathing disorders and cardiovascular diseases**

A joint ESC/ERS session

**Aims:** To describe the need for intense collaboration among pneumologists, cardiologists and intensive care specialists for the proper care of patients with pulmonary hypertension.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs:** Olivier Sitbon (Le Kremlin-Bicêtre, France), Chair to be confirmed

**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
**Channel 4 Session 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.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Paediatrician, Thoracic surgeon, Nurse, Respiratory physiotherapist

**Chairs:** Eva Polverino (Barcelona, Spain), Gernot G.U. Rohde (Frankfurt am Main, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
<td></td>
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<tr>
<td>14:35</td>
<td>ARDS- an unusual complication of mumps</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>14:41</td>
<td>Discussion and Q &amp; A</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>14:46</td>
<td>An unexpected association</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>14:52</td>
<td>Discussion and Q &amp; A</td>
<td>Speaker to be confirmed</td>
</tr>
<tr>
<td>14:57</td>
<td>Dyspnea and pulselessness: an unusual combo</td>
<td>Umang Arora (New Delhi, India)</td>
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<tr>
<td>15:03</td>
<td>Discussion and Q &amp; A</td>
<td>Umang Arora (New Delhi, India)</td>
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<tr>
<td>15:08</td>
<td>A rare cause of bronchiectasis</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>15:14</td>
<td>Discussion and Q &amp; A</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>15:19</td>
<td>Successful management of a patient with triple infection (MDR-TB/HIV/HCV) using new WHO recommendations</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>15:25</td>
<td>Discussion and Q &amp; A</td>
<td>Speaker to be confirmed</td>
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</tbody>
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**Studio Milan Session 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)

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<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Incidental or screen based findings of pulmonary nodules: what to do?</td>
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<tr>
<td>14:45</td>
<td>Revised diagnostic criteria for idiopathic pulmonary fibrosis</td>
<td>Athol Wells (London, United Kingdom)</td>
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</table>
### 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

#### 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)
- Aye Arzu Yorgancolu (Izmir, Turkey)

#### Session 14:30 - 15:30

14:30 Introduction

<table>
<thead>
<tr>
<th>14:35</th>
<th>ERS statement: Global Lung Function Initiative (GLI): Deriving global multi-ethnic reference values for the measurement of lung volumes</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Sanja Stanojevic (Halifax (NS), Canada)</td>
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<tr>
<th>14:55</th>
<th>The evolution of respiratory function testing in paediatric lung diseases</th>
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<tr>
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<td>Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)</td>
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<tr>
<th>15:05</th>
<th>Challenging spirometry with newer lung function tests in adults</th>
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<td></td>
<td>Omar S. Usmani (London, United Kingdom)</td>
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</table>

15:15 Discussion and Q&A

### Journal session: New technologies for the management of COPD and obstructive sleep apnea and the diagnosis of lung cancer

#### 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

#### 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)

#### Session 14:30 - 15:30

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<tr>
<th>14:30</th>
<th>Introduction</th>
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<td></td>
<td>George O'Connor (Boston, United States of America)</td>
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<tr>
<th>14:35</th>
<th>Surgical approaches to the treatment of obstructive sleep apnea</th>
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<tr>
<td></td>
<td>Stuart Mackay (Wollongong, Australia)</td>
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<tr>
<th>14:48</th>
<th>Blood biomarkers in the diagnosis of lung cancer</th>
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<td>Speaker to be confirmed</td>
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<tr>
<th>15:02</th>
<th>Home noninvasive positive pressure ventilation for severe COPD</th>
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<tr>
<td></td>
<td>Claudia Dobler (Coogee, Australia)</td>
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</tbody>
</table>
Discussion and Q & A

Conclusion

George O'Connor (Boston, United States of America)

15:25

Channel 5

Session

14:30 - 15:30

Oral presentation: Updated assessment and treatment of pulmonary arterial hypertension

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Pulmonary vascular diseases

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

Chairs : Marius M. Hoeper (Hannover, Germany), Sean Gaine (Dublin, Ireland)

Late Breaking Abstract - Switching from PDE5i to riociguat in patients with PAH: The REPLACe study


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, Raviinda Kumar

Late-breaking abstract: Long-term outcomes with initial triple oral therapy in pulmonary arterial hypertension (PAH): Insights from TRITON

Olivier Sitbon (Le Kremlin-Bicêtre, France), Nazzareno Galèi, Martin Doelberg, J Simon R Gibbs, Marius M Hoeper, Mylene Stefani, Stephen C Mathai, Vallerie McLaughlin, Loïc Perchenet, Gérard 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 Baro, Laurent Savale, Xavier Jaïs, François Picard, Vincent Cottin, Emmanuel Bergot, Claire Dauphin, Arnaud Boudin, Ari Chauhat, Pascal Roblot, Céline Chabanne, Grégoire Prévôt, Laurent Bertoletti, David McLaughlin, Gérard 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), Emmanuel Coutrel, Nazzareno Galèi, J. Tim Marcus, Andrew Peacock, Stephan Rosenkranz, Andrew J Swift, Ahmed Tawakol, 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

Christina Eichstaedt (Heidelberg, Germany), Ekkehard Grünig, Alison Mackenzie, Andrew Peacock, Nicola Benjamin, Robert Nechval, Silvia Ulrich, Stéphanie Saxon, Maurizio Bussotti, Marina Somaruga, Stefano Ghio, Lina Gumbiene, Egle Palevičiūtė, Elena Jurevičienė, Antonio Cittadini, Anna A. Stanziana, Alberto M. Marra, Gabor Kovacs, Horst Olschewski, Joan-Albert Barbèra, Isabel Blanco, Martijn A. Spriui, Frits M. E. Franssen, Anton Vonk-Noordegraaf, Abelio Reis, Mário Santos, Sofía Gonzalves Viamonte, Helen Demeyer, Martin Delcroix, Eduardo Bossone, Martin Johnson

EmPHasis-10 health-related quality of life score predicts outcomes in patients with idiopathic and connective tissue disease-associated pulmonary arterial hypertension: results from a large European multicentre 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

Channel 3

Session

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 Øyamar, Thomas Halvorsen, Maria Vollset

**Development of lung function in “healthy” preterm infants during the first six years of life.**
Laura Camats Marsol (SAN SEBASTIÁN, Spain), Inés 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 Myelemans (Berchem, Belgium), Sofie Jacobs, Eline Vermeiren, Kim Van Hoorenbreeck, Ann De Guichenaere, Annelies Van Eyck, Stijn Verhulst

**Fluctuation analysis of FEV1 in healthy children and adolescents: the effect of age**
Sotiriou Fouzas (Patras, Greece), Eirini Sofia Frima, Ilias 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-Christianne Kentgens (Bern, Switzerland), Olga Lagiou, Bettina Sarah Frauchiger, Florian Wyler, Ilias Theodorakopoulos, Sophie Yammine, Sotiriou Fouzas, Philipp Latzin

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**Channel 2**

**Session** 14:30 - 15:30

**Oral presentation: Biological aspects of lung cancer**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

**Chairs**: Jacques Cadranel (Paris Cedex 20, France). Chair to be confirmed

**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

**Late Breaking Abstract - Transient Receptor Potential Vanilloid subtype 4 in patients with lung cancer**
Ieva Bajoriuniene (Kaunas, Lithuania), Vytis Bajoriunas, Edgaras Stankevicius

**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 Polyarchou, Antonia Marazioti, Sophia Nikou, Gonzalo Herradon, Eleni Papadaki, Georgios Stathopoulos, Constantinos M. Mikelis, Evangelia Papadimitriou

**LSC - 2019 - Comprehensive characterization of the immune landscape within different molecular subtypes of small cell lung cancer (SCLC)**

**Prediction of long-term effect of anti-angiogenic therapy in lung cancer patients by monitoring early changes in circulating-tumor DNA (ctDNA).**
Barbora Belsanova, Miloš Pešek, Benesova Lucie, Martin Svatoň, Renata Ptackova, Ondrej Fiala, Masrek Minarik

**Long-term prognosis of patients with cancer-related mutations in non-tumoral lung.**
Roberto Chalela (Barcelona, Spain), Karys Khilzi, Joaquin Gea, Albert Sánchez-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 Broschutz, Osama Sabri, Swen Hesse, Hans-Jürgen Seyfarth, Hubert Wirtz

**Role of extracellular vesicles in chemotherapy-induced lung metastasis**
Nahal Mansouri (Boston, United States of America), Ioanna Keklikoglou, Sina Nassiri, Bruno Torchia, Alan Guichard, Michele De Palma
Exosomes from Intermittent Hypoxia Treated Lung Adenocarcinoma Cell Line Up-regulate Programmed Death Ligand 1 Expression through HIF-1α Pathway in Macrophages

Yuanling Liu (Guangzhou, China), Xinglin Gao, Minzhen Lu, Jianan Chen, Siqi Li

Channel 1

Session 14:30 - 15:30

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: Chair to be confirmed

14:30 Introduction
14:35 Update on management of lung infection in cystic fibrosis
   Patrick Flume (Charleston, United States of America)
14:45 Update on pancreatic and liver disease in cystic fibrosis
   Speaker to be confirmed
14:55 Living with cystic fibrosis: challenges in treatment adherence and social emotional well-being
   Mandy Bryon (London, United Kingdom)
15:05 Update on new treatments for cystic fibrosis
   Damian Downey (Belfast, Ireland)
15:15 Discussion and Q&A

Studio Vienna

Session 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 reflection 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)

15:30 Introduction and presentation by the session facilitator
   Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)
15:34 Case 1 - Author: Hebatallah Hany Assal (Egypt)
15:44 Discussion and Q & A
15:48 Case 2 - Author: Neel Thakkar (India)
15:58 Discussion and Q & A
16:02 Case 3 - Author: João Oliveira Pereira (Portugal)
16:12 Discussion and Q & A
16:16 Case 4 - Author: Oleh Yakovenko (Ukraine)
16:26 Discussion and Q & A

Channel 4

Session 15:40 - 16:40

Challenging clinical cases: Respiratory critical care
**Aims**: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Respiratory critical care physician, Clinical researcher, General practitioner, Paediatrician, Thoracic oncologist, Thoracic surgeon, Pathologist, Nurse, Radiologist

**Chairs**: Marieke L. Duiverman (Groningen, Netherlands), Enrico M. Clini (Modena (MO), Italy)

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Details</th>
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<tr>
<td>15:40</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>15:45</td>
<td><strong>SLE with H L H - A double whammy</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>15:51</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>15:56</td>
<td><strong>Siphonage lung disease</strong></td>
<td>Speaker to be confirmed</td>
</tr>
<tr>
<td>16:02</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>16:07</td>
<td><strong>Acute Flaccid Paralysis and respiratory failure by Enterovirus D68 Infection-the beginning of Polio epidemic?</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>16:13</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>16:18</td>
<td><strong>Cerebral air embolism complicating transbronchial lung biopsy</strong></td>
<td>Vladimir Herout (Brno 34, Czech Republic)</td>
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<tr>
<td>16:24</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Vladimir Herout (Brno 34, Czech Republic)</td>
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<tr>
<td>16:29</td>
<td><strong>Respiratory insights into Stiff Person Syndrome (SPS): clinical, electromyographic and therapeutic implications</strong></td>
<td>Speaker to be confirmed</td>
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<td>16:35</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Speaker to be confirmed</td>
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### Studio Milan Session 15:40 - 16:40

**Symposium: Will the pulmonologist still play a role in the management of screen-detected pulmonary nodules?**

**Aims**: To describe non-invasive methods of early detection, diagnosis and confirmation of thoracic cancers and their effects on the role of pulmonologists in patient management.

**Disease(s)**: [Thoracic oncology]

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

**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)

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<td>15:40</td>
<td><strong>Introduction</strong></td>
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<td>15:45</td>
<td><strong>The challenge for the endoscopist</strong></td>
<td>Erik H.F.M. van der Heijden (Nijmegen, Netherlands)</td>
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<tr>
<td>15:55</td>
<td><strong>Issues other than tissue: non-invasive biomarkers of early stage lung cancer</strong></td>
<td>Torsten Gerriet Blum (Berlin, Germany)</td>
</tr>
<tr>
<td>16:05</td>
<td><strong>Radiologic early detection of early thoracic cancers: the role of artificial intelligence</strong></td>
<td>Wieland Voigt (Berlin, Germany)</td>
</tr>
</tbody>
</table>
The challenge for the pathologist and pulmonologist: liquid biopsy in the diagnosis of early stage lung cancer
Joanna Chorostowska-Wynimko (Warsaw, Poland)

16:25 Discussion and Q & A

Channel 1 Session 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), Chair to be confirmed

15:40 Introduction
15:45 E R N-lung report from the network coordination team
Gernot G.U. Rohde (Frankfurt am Main, Germany)

15:54 Phenotypic Spectrum in Primary Ciliary Dyskinesia
Heymut Ohriman (Münster, Germany)

16:03 Genomically-guided therapies: a new era for cystic fibrosis
Marcus Mall (Berlin, Germany)

16:12 Why should we care for the vessels in interstitial lung disease?
Horst Olschewski (Graz, Austria)

16:21 Immundefects, rare pulmonary infections and rare lung diseases
John R Hurst (London, United Kingdom)

16:30 Discussion and Q & A

Studio Paris Session 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, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist
Chairs: Thomas Geiser (Bern, Switzerland), Ay e Arzu Yorganc o lu (Izmir, Turkey)

15:40 Introduction
15:45 Physiology of cough and denervation of the airways
Giovanni A. Fontana (Vaglia (FI), Italy)

15:55 Differential diagnosis of chronic cough
Imran Satia (Hamilton (ON), Canada)

16:05 Cough reflex hypersensitivity: a treatable trait?
Eva Millqvist (Skovde, Sweden)

16:15 Novel treatments of chronic cough
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

16:25 Discussion and Q & A
**Channel 2**

**Session** 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), Chair to be confirmed

The association between lung function in adults and future burden of obstructive lung diseases in a long-term follow-up

Lene Maria Ørts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Anders Helles Carlsen, Annelli Sandbæk, Anders Lokke

The majority of patients that suffer an asthma attack at the Emergency Room (ER) are mild asthmatics

Zafeiria Barmparessou (Athens, Greece), Aliki Korkontzelou, Nikolaos Athanasiou, Archontoula Antonoglou, Stavroula Boulia, Georgios Bouhassakos, Sophia Gida, Sofia Pappa, Efthimios Zervas, Ioannis Kalomenidis, Paraskevi Katsaounou

“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 (IPC RG) Research Prioritisation Exercise


**Channel 5**

**Session** 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), Chair to be confirmed

Late Breaking Abstract - Thromboembolic complications in COVID-19 patients admitted to two large East London hospitals

Stuart Innes (Romford, United Kingdom), Erik Skylland, Helen Fielden, Ateeb Khan, Daryl Cheng, Rizwan Kaiser, Adam Ainley

Late Breaking Abstract - Pulmonary embolism in patients admitted by COVID-19. Incidence and features

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 Cahibano Dominguez, Jose Luis Santiago Luis, Mariara Antonieta Calderon Alcala, Alicia Ruiz Martin, Zully Adjani Vasquez Gambiasica, Pilar Andres Ruzafa, Jose Luis Garcia Satue, Sara Calero Pardo, Maria Teresa Rio Ramirez

Late Breaking Abstract - Pulmonary embolism in patients with COVID-19: Time to change thromboprophylaxis paradigm.

Aarani Mahalingam (United Kingdom), Alguili Elsheikh, Muhammad Shafiq, Marcus Pittman

Impact of pulmonary hypertension on the left ventricular stiffness: a large animal study

Olympia Bikou (New York, United States of America), Serena Tharakan, Kelly Yamada, Taro Kariya, Jaime Aguero, Kenneth Fish, Kiyotake Ishikawa
Exercise stress echocardiography of the pulmonary circulation and right ventricular-arterial coupling in healthy adolescents
Kevin Forton (Bruxelles, Belgium), Vitalie Faoro, Robert Naeije.

Insights on right ventricular dysfunction in World Symposium of Pulmonary Hypertension Group 3 PH
Franz Rischar (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

Right ventricular stiffness impairs right atrial function in pulmonary arterial hypertension

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. Rischar.

Oral presentation: Hot topics in paediatric asthma
Abstracts presented in this session are also available as E-posters from 24 August 2020.

Diagnosis of asthma in children: findings from the Swiss Paediatric Airway Cohort
Carmen de Jong (Bern, Switzerland), Eva S L Pedersen, Rebeca Mozun, Dominik Mueller-Suter, Anja Jochmann, Florian Singer, Carmen Casaulta, Nicolas Regamey, Alex Moeller, Cristina Ardura-Garcia, Claudia E Kuehni.

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.

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), Christina Jones, Colin Palmer, Steve Turner, Jonathan Grigg, Roger Pavendale, Fiona Hogarth, Petra Rauchhaus, Kristina Pilvinyte, Helen Smith, Roberta Littleford, Brian Lipworth, Somnath Mukhopadhyay.

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 Illy.

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 Galtø Sørensen (Stavanger, Norway), Knut Øymar, Thomas Halvorsen, Ingvild Bruun Mikalsen.

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):
- 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)

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<td>16:50</td>
<td><strong>Introduction</strong></td>
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| 16:55 | **Early life influences on the development of chronic pulmonary diseases: the role of the paediatrician**
       | Gwyneth Davies (London, United Kingdom)     |
| 17:05 | **Early origins of chronic pulmonary disease: the role of the adult pulmonologist**
       | Cecilie Svanes (Bergen, Norway)             |
| 17:15 | **Effects of lung development on pulmonary function tests: from early life to chronic respiratory disease**
       | Elianne J.L.E. Vrijlandt (Groningen, Netherlands) |
| 17:25 | **Pulmonary diseases and ageing**
       | Maria Rosa Faner Canet (Barcelona, Spain)   |
| 17:35 | **Discussion and Q & A**                     |

#### Session 3

**Oral presentation: Challenging issues in thoracic surgery**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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<th>Thoracic oncology</th>
<th>Respiratory critical care</th>
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<tr>
<td>Method(s):</td>
<td>Pulmonary rehabilitation</td>
<td>Surgery</td>
<td>Respiratory intensive care</td>
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### Chairs:
- Marcello Migliore (Catania (CT), Italy), Dragan R. Subotic (Basel, Switzerland)

<table>
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<tr>
<td><strong>Late Breaking Abstract - An updated meta-analysis of uniportal versus multiportal video-assisted thoracoscopic lobectomy for lung cancer.</strong></td>
<td>Dimitrios Magouliotis (Larisa, Greece), Maria Fergadi, Kyriakos Spiopioulos, Kalliopi Athanassiadis</td>
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<td><strong>Quality of life evolution in the first year after VATS lung resection and SABR for early stage NSCLC: a single centre analysis</strong></td>
<td>Cecilia Pompili (Leeds, United Kingdom), Kevin Franks, Zoe Rogers, Matthew Callister, Jonathan Robson, Alessandro Brunelli, Patricia Holch, Wei Ling Chia, Kate Absolom, Alessandro Brunelli, Patricia Holch, Wei Ling Chia, Kate Absolom, Galina Velikova</td>
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<td><strong>Safety Analysis of Superior Vena Cava Resection for Extended Thymic Epithelial Neoplasms</strong></td>
<td>Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Giulia Sedda, Lorenzo Spaggiari</td>
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<td><strong>Early venovenous extracorporeal membrane oxygenation for idiopathic post-pneumonectomy pulmonary edema.</strong></td>
<td>Agathe Seguin-Givelet (France), Charles Moulin, Philippe Girard, Konstantinos Zannis, Laurent Trie, Jean-Luc Leguillou, Thibault Vieira, Dominique Gosso, Christian Lamers</td>
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<td><strong>Role of chemokines, their gene polymorphisms in resectable NSCLC</strong></td>
<td>Marie Drösslerová (Opava 5, Czech Republic), Martina Štercelová, Martina Vašáková, Alice Tašková, Vladislav Hytých, Eva Richterová, Milada Matějčková</td>
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<td><strong>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</strong></td>
<td>Pavlína Lenga (Berlin, Germany), Christian Graß, Jens-Carsten Rückert, Joachim Pfansschmidt, Stefan Eggeling, Sylke Kurz, Günter Leschiß, Bernd Schmidt, Paul Schneider, Andreas Gebhardt, Birgit Becke, Ralf-Harto Hübner</td>
</tr>
<tr>
<td><strong>Eligibility for Lung Volume Reduction in patients with COPD attending Pulmonary Rehabilitation</strong></td>
<td>Sara Catherine Butterly (London, United Kingdom), Adam Lewis, Samuel V Kemp, Jennifer K Quint, Michael C Steiner, Nicholas S Hopkinson</td>
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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

### 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 Feded Olmos (Valencia, Spain), Raúl Méndez, Paula González-Jiménez, Leyre Bouzas, Alba Piró, Victoria Alcaraz-Serrano, Rosanel Amaro, Giulia Scioscia, Antoni Torres, Rosario Menéndez

### Endotyping bronchiectasis through multi-omic profiling
Holly Rachael Keir (Dundee (Angus), United Kingdom), Amelia Shoemark, Megan Crichton, Alison Dicker, Jennifer Pollock, Ashley Giam, Andrew Cassidy, Christopher Fong, Simon Finch, Elizabeth Furrie, Guillermo Suarez-Cuartin, Thomas C Fardon, Gisli G Einarsrson, 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

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**Channel 2**

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:** Ian M. Adcock (London, United Kingdom), Chair to be confirmed

### 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
Hajar Ali (wellington, New Zealand), Collin Brooks, Julian Crane, Richard Beasley, Graham Le Gros, Stephen Holgate, Peter Gibson, Philip Pattemore, Thorsten Stanley, Shieak Yc Tzeng, Neil Pearce, Jeroen Douwes

### MBD2 regulates Th17 differentiation in severe asthma via modulating Ascl2 expression
Wenjin Sun (Chengdu City, China), Xudong Xiang

### Quantitative L C-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 (Piombino Dese (PD), 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 Jieyi, Cai Shaoxi

LSC - 2019 - Glutathione-S-transferase P promotes Interleukin-1ß-induced inflammation and metabolism reprogramming in mice with allergic airways disease

Channel 5
Session 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)

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 Luisa Araujo Oliveira (Vila Nova de Famalicão, Portugal), Sofia Flora, Liliana Santos, Nuno Morais, Jose Ribeiro, Fernando Silva, Candida Silva, Bruno Carreira, Ruben Caceiro, Dinesh Kumar, Alda Marques, Dina Brooks, Chris Burtin, Joana Cruz

Association between air pollution and physical activity in patients with COPD
Maria Koreny (Wien, Austria), Magda Bosch De Basea, Ané Arbillaga-Etxarri, Marta Cirach, Anaël Barberan-Garcia, Eulàlia Borrell, Elena Gimeno-Santos, Maria Foraster, Alicia Marín, 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 Varadar Yaglı, Ebru Calik Kutu, 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
Maria Antonia Ramon (Barcelona, Spain), Beatriz Valeiro, Esther Rodriguez, Paula Pérez, Alba Gómez, Ana Isabel Mayer, Alejandro Pasarin, Jordi Ibañez, Jaume Ferrer

The effect of lung volume reduction on the success of physical activity coaching in patients with severe COPD
Astrid Blondeel (Leuven, Belgium), Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Stephanie Everaerts, Sofie Breuls, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens

The effect of tele coaching after pulmonary rehabilitation on patients’ experience of physical activity in patients with COPD
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Matthias Loeckx, Fernanda Rodrigues, Sofie Breuls, Wim Janssens, Thierry Troosters

Channel 1
Session 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)

### Session 16:50 - 19:00

#### Interstitial lung disease (ILD) and multicompartment assessment of CTD: where should the respiratory physician begin?  
Christopher P. Denton (London, United Kingdom)

#### Does histology matter in ILD-CTD?  
Venerino Poletti (Forlì, Italy)

#### Fibrotic CTD and interstitial pneumonia with autoimmune features (IPAF): immunosuppressive or/and anti-fibrotic treatment?  
Sonye Danoff (Baltimore, United States of America)

#### B-cell suppressive therapy and monoclonal antibodies in CTD: does one size fit all?  
Diego Kyburz (Basel, Switzerland)

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**Studio Milan**

**Session 16:50 - 19:00**

**Live from the clinic: Paediatric procedures**

**Aims:** This session aims to explain how several procedures in paediatrics may be performed and organised. Children form a special group of patients and many procedures that are routine in adults may be challenging in children. Bronchoscopy can provide crucial information in children with several complaints such as stridor, recurrent airways infections or unexplained respiratory symptoms. In most centres’ bronchoscopy is performed under general anaesthesia requiring excellent communication with anaesthesiologists. Multiple breath washout (MBW) tests in children are very sensitive in picking up airways abnormalities in children and can be performed in children of all ages. Still, expertise is needed to perform a successful MBW test in a preschool child. While MBW tests require at least some cooperation from the child, the hypoxic challenge test does not, at least if performed in a body box. Lastly, CT scanning of the chest may be much more informative if scanning is spirometry controlled. This procedure will be demonstrated with valuable input from a paediatric radiologist.

**Disease(s):** Paediatric respiratory diseases  
**Method(s):** Endoscopy and interventional pulmonology  
**Tag(s):** Clinical  
**Target audience:** Paediatrician  
**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jan van Meerbeeck (Edegem (Antwerp), Belgium)

#### Introduction  

#### Keynote: Diagnostic and the therapeutic applications of bronchoscopy  
Ernst Eber (Graz, Austria)

#### Bronchoscopy in a child  
Dirk Schramm (Düsseldorf, Germany)

#### Multiple breath washout in toddlers  
Kathryn Ramsey (Bern, Switzerland)

#### Hypoxic challenge test in preschool children  
Stephanie J.A. Balink (Rotterdam, Netherlands)

#### Spirometry controlled chest CT  
Pierluigi Ciet (Rotterdam, Netherlands), Harm Tiddens (Rotterdam, Netherlands)

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**Studio Vienna**

**Session 17:20 - 17:50**

**Pro/Con debate: Is the global warming potential of inhaler propellants significant?**

**Chairs:** Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)
Studio Madrid  Session  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

**18:05** Exercise responses in patients with sleep apnoea  
Ludger Grote (Göteborg, Sweden)

**18:15** Sleep and exercise: a bidirectional relationship  
Pierrick Arnal (Paris, France)

**18:25** Blood pressure and exercise in sleep apnoea  
Maria Bonsignore (Palermo, Italy)

**18:35** Physical activity and exercise training as therapeutic interventions for sleep apnoea  
Monique Mendelson (Grenoble, France)

**18:45** Discussion and Q & A

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Studio Paris  Session  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:** Aye Arzu Yorgancolu (Izmir, Turkey), Thomas Geiser (Bern, Switzerland)

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**18:00** Introduction

**18:05** Refining asthma treatment for mild asthma  
Roland Buhl (Mainz, Germany)

**18:14** Identifying patients with severe asthma that will benefit from biological therapy  
Celeste Michala Porsbjerg (Copenhagen, Denmark)

**18:23** What is it about responders and non-responders in asthma? From biology to physiology and treatment  
Marco Idzko (Wien, Austria)

**18:32** Is severe neutrophilic asthma a separate entity?: Pro  
Anke-Hilse Maitland-van der Zee (Amsterdam, Netherlands)

**18:41** Is severe neutrophilic asthma a separate entity?: Con  
Speaker to be confirmed
19:00 Discussion and Q & A

Channel 5 Session 18:00 - 19:00

Oral presentation: Airflow obstruction, COPD and comorbidities
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Method(s):** General respiratory patient care, Epidemiology, Pulmonary function testing, Respiratory intensive care, Imaging, Public health

**Chairs:** Charlotte Bolton (Nottingham (Nottinghamshire), United Kingdom), Chair to be confirmed

- **Late Breaking Abstract - Ventilatory function and diet quality in US adults - Evidence from the National Health and Nutrition Examination Survey (NHANES)**
  Kirstie Ducharme-Smith (, United States of America), Francisca De Castro Mendes, Rodrigo Villegas, Gustavo Mora-Garcia, Maria Stephany Ruiz-Diaz, Andre Moreira, Vanessa Garcia-Larsen

- **Late Breaking Abstract - Association between dynamic expiratory tracheal collapse and obstructive sleep apnoea**
  Soril Kim (Ansan, Republic of Korea), Ki Yeol Lee, Robert D Abbott, Hye Ryeong Nam, Chol Shin

- **Reduced lung function and cognitive decline in ageing: a longitudinal cohort study.**
  Yutong Cai (London, United Kingdom), Wuxiang Xie, Fanfan Zheng, Xiaobo Han, Yanjun Ma, Rong Hua, Lixin Xie

- **DECT-derived PBV heterogeneity in a general population sample: The MESA Lung Study**
  Eric A. Hoffman (Iowa City, United States of America), Amin Motalari, Emilia Hermann, Grant Hiura, Norrina Allen, Alain Bertoni, David A. Bluemke, Ali Eskandari, Erin D. Michos, Prashant Nagpall, Jim Pankow, Karen Stukovsky, Karol Watson, R. Graham Barr

- **Cardiovascular comorbidities based on impaired pulmonary function in non-smoking population**
  Joo Hun Park (Suwon, Republic of Korea), Ji Eun Park, Woo Young Chung, Sung Chul Hwang, Ji Hyun Park, Bumhee Park, Lee Keu Sung, Yun-Jun Jung

- **Risk of future exacerbations among COPD patients - a real-world register-based cohort study (AvoidEx)**
  Claus Vogelmeier (Marburg, Germany), Marc Pignot, Fredrik Wiklund, Javier Nuevo, Gunilla Telg, Christer Janson

- **Use of NEWS2 to predict length of stay and in hospital mortality at exacerbation of COPD**
  Philip Stone (London, United Kingdom), Jennifer Quint, C Michael Roberts, John Hurst

- **Lung function curve over the life-course using longitudinal data from multiple cohorts**
  Judith Garcia Aymerich (Barcelona, Spain), 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 (Maastricht, Netherlands), Rachel Jordan, Frank De Vries, Alice Sitch, Peymane Adab, Frits Franussen

Channel 3 Session 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:** Chair to be confirmed

- **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 (Eindhoven, Netherlands), Marjolein Brusse-Keizer, Jan-Willem Gerritsen, Hugo Schouwink, Emanuel Citgez, Frans De Jongh, Diania Stolz, Michel Van Den Heuvel, Wouter Van Geffen, John Van Putten, Lisanne Kastelijn, Van Den Borne, Job Van Der Palen

- **Invasiveness assessment of deep leaning method for pulmonary subsolid nodules**
  Jiajun Deng (Shanghai, China), Yunlang She, Jun Wang, Tingting Wang, Mengmeng Zhao, Yang Wang, Yaofeng Wen, Xiwen Sun, Dong Xie, Chang Chen

- **Validation of a deep learning-based computer-aided system for lung nodule detection in a Chinese lung cancer screening program**
  Sunyi Zheng (Groningen, Netherlands), Xiaonan Cui, Marjolein Heuvelmans, Yihui Du, Grigory Sidorenkov, Monique Dorrius, Raymond Veldhuis, Matthijs Oudkerk, Geertruida De Boek, Peter Van Ooijen, Rozemarijn Vliegenthart, Zhaoxiang Ye
Effect of slab thickness on pulmonary nodule detection using maximum intensity projection in a deep learning-based computer-aided detection system
Sunyi Zheng (Groningen, Netherlands), Xiaonan Cui, Marleen Vonder, Raymond Veldhuis, Monique Dorrius, Zhaoxiang Ye, Rozemarijn Vliegenthart, Matthijs Ouderkkerk, Peter Van Ooijen

A comparison of MRI findings in cases with progressive massive fibrosis and lung cancer
Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Oktay Algin, Gülden Sari

Towards personalized lung cancer CT screening in Europe
Carlijn Van der Aalst (Rotterdam, Netherlands), Matthijs Ouderkkerk, Kevin Ten Haaf, David Baldwin, Rachael Murray, Emma O'Dowd, Rudolf Kaaks, Nicoleas Becker, Josep Espinàs, Josep Borras, Clemens Aigner, Corinne Balleyguier, David Planchard, Sam Janes, Gabriella Sozzi, Ugo Pastorino, Harry De Koning

Lung cancer screening - what does it mean for our practice?
Claire Calderwood (London, United Kingdom), Erik Skyllberg, Kiran Desai, Mohammad Moghal, Rajesh Banka

Channel 4 Session 18:00 - 19:00

Oral presentation: Use of thoracic ultrasound in different clinical settings
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Respiratory critical care, Thoracic oncology, Sleep and breathing disorders, Interstitial lung diseases

Method(s): General respiratory patient care, Respiratory intensive care, Endoscopy and interventional pulmonology, Imaging, Pulmonary function testing

Chairs: Michiel J. Thomeer (Tielt (BT), Belgium), Pia Iben Pietersen (Odense NØ, Denmark)

Thoracic ultrasound (TUS) training: Regional survey of respiratory specialty trainees (RST) from West Midlands Deanery (WMD), UK
Qaiser Abdullah (Stoke on trent, United Kingdom), Asif Azam, Muhammad Badar Ganaie

Lung ultrasound and ultrasound elastography for diagnosis and followup of interstitial lung diseases
Zarifa Abdullayeva (Ankara, Turkey), Müge Aydoğdu, Ebru Oztürk, Nilgün Yılmaz Demirci, Haluk Türktaş, Nurdan Kükürt

Focused sonographic examination of Diaphragm, Ultrasound lung, DVT screen and Heart scan (ECHO) in unselected patients getting admitted in pulmonary medicine ward - The DUDE study
Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari K, Uma Devaraj

Utility of ultrasonography in the assessment of the pharyngeal airway
Shumit Saha (Toronto, Canada), Anand Rattansingh, Keerthana Viswanathan, Anamika Saha, Rosemary Martin, 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 Santos, Lourdes Barradas, Paulo Freitas

Choice of pleural puncture site: Prospective comparative study between clinical exam and ultrasound
Mariem Fericchi (Tunis, Tunisia), Islam Mejri Ep Ajili, Mariem Chaabane, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaaouia, Zied Moatenri, Mohsen Mohsen

Channel 2 Session 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

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

Method(s): General respiratory patient care, Endoscopy and interventional pulmonology, Public health

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 Antoniadi
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, Raghaa 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 Rodríguez, Eva Anadón, Milagros Bone, José Angel Carretero

Pleural procedure confidence and competence in postgraduate UK medical trainees
Andrew Singer (London, United Kingdom), Anand Sundaralingam, William Ricketts

Pulmonary hypertension training requirements in the UK: A survey of UK respiratory trainees.
Michael Bridgett (Hassocks, United Kingdom), Brendan Madden

Cognitive task analysis of flexible bronchoscopy for the design of simulation-based training
Marleen Groenier (Enschede, Netherlands), Julia Kania, Michiel Wagenaar, Emanuel Citgez, Martin Schmettow

Young Pneumologists in Germany - working conditions in patient care and science
Julia Wälscher (Essen, Germany), Thomas Bahmer, Christoph Fisser, Tina Schreiber, Myriam Koch, Matthias Raspe

Channel 1  Session  18:00 - 19:00
Oral presentation: Covering COVID - the best abstracts
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Respiratory critical care  Pulmonary vascular diseases  Interstitial lung diseases  Airway diseases
Method(s) : General respiratory patient care  Cell and molecular biology  Respiratory intensive care  Endoscopy and interventional pulmonology  Imaging  Pulmonary function testing  Epidemiology  Public health

Chairs : Chair to be confirmed

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 Lugr, Magdalena Aichner, Anna Böhm, Guenter Weiss, Christoph Tschurtschenthaler, Verena Petzer, David Haschka, Markus Theurl, Daniela Lener, Sophie Wildner, Rosa Bellmann-Weiler, Ewald Wöll, Judith Löfler-Rag, Ivan Tancevski

Late Breaking Abstract - The impact of the use of helmet CPAP in a general ward during COVID-19 outbreak
Ilaria Valentini (Bologna (BO), Italy), Susanna Masetti, Anna Filomena Ferravante, Alessia Fabiano, Andrea Mussoni, Stefania Pezzi, Giuliano Malatesta, Alessandra Gennari, Elisa Marchionni, Ilaria Contadini, Francesco Cristini, Eva Bernardi, Luigi Arcangelo Lazzari Agli

Late Breaking Abstract - A SINGLE-CENTER EXPERIENCE WITH HIGH-FLOW NASAL CANNULA FOR COVID-19 PATIENTS WITH ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)
Cristina Matiesz Azlopes (Madrid, Spain), Jos María Diaz García, Carolina Panadero Fernández, Fernando García Prieto, Beatriz Moreno Raboso, María Teresa Rio Ramirez, Carmen Maria Acosta Gutiérrez, Cristina López Rioibos, Mariar Calderón Alcal, Zully Vásquez Gambasica, Pilar Andrés Ruzafa, José Luis García Satué, Alicia Ruiz Martin, Sara Calero Pardo, Araceli Abad Fernández

Late Breaking Abstract - The role of bronchoscopy in COVID-19 patients during the SARS-COV-2 pandemic.

Late Breaking Abstract - Morphological and immunophenotypical features of lung tissue in early phase of COVID-19
Claudia Ravaglia (Forlì, Italy), Claudio Dogliani, Marco Chilosi, Giulio Rossi, Alessandra Dubini, Sara Picuecchi, Federica Pedica, Antonella Arcadu, Silvia Puglisi, Luca Donati, Giovanni Poletti, Stefano Maitan, Vanni Agnoletti, Emanuele Russo, Franco Stella, Venerino Polletti

Late Breaking Abstract - Plasma cells and endothelitis in COVID-19 lung pathology
Katrien Grunberg (Amsterdam, Netherlands), Frank Van De Veerendonk, 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 Kruijthof-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 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

Studio Vienna Session 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 reflexion 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 (Cambridgeshire), United Kingdom)

18:00 Introduction and presentation by the session facilitator
Joanna Pepke-Zaba (Cambridge (Cambridgeshire), United Kingdom)

18:04 Case 1 - Author: Somayeh Sadeghi (Iran)

18:14 Discussion and Q & A

18:18 Case 2 - Author: Sai Charan Govinda Bodi (United Arab Emirates)

18:28 Discussion and Q & A

18:32 Case 3 - Author: Johad Khoury (Israel)

18:42 Discussion and Q & A

18:46 Case 4 - Author: Anca Macri (Romania)

18:56 Discussion and Q & A
**Studio Vienna**

**Session** 09:30 - 11:40

**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:** Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Chair to be confirmed

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<td>09:30</td>
<td>Introduction</td>
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<td>09:35</td>
<td>Chronic refractory cough</td>
<td>Kian Fan Chung (London, United Kingdom)</td>
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<td>09:55</td>
<td>Discussion and Q&amp;A</td>
<td>Kian Fan Chung (London, United Kingdom)</td>
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<td>10:00</td>
<td>Diagnosis and management of community acquired pneumonia in adults</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<td>10:20</td>
<td>Discussion and Q&amp;A</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<td>10:25</td>
<td>Non-tuberculous mycobacteria</td>
<td>Cécile Magis-Escurra (Nijmegen, Netherlands)</td>
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<td>10:45</td>
<td>Discussion and Q&amp;A</td>
<td>Cécile Magis-Escurra (Nijmegen, Netherlands)</td>
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<td>10:50</td>
<td>Fitness for radical therapy in lung cancer patients</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
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<td>11:10</td>
<td>Discussion and Q&amp;A</td>
<td>Ales Rozman (Golnik, Slovenia)</td>
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<td>11:15</td>
<td>Acute pulmonary embolism</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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<td>11:35</td>
<td>Discussion and Q&amp;A</td>
<td>David Jiménez Castro (Madrid, Spain)</td>
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**Studio Milan**

**Session** 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, Physician in Pulmonary Training, 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>09:30</td>
<td>Introduction</td>
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<tr>
<td>09:35</td>
<td>The lung cancer microenvironment and the lung microbiota: cross or cease fire?</td>
<td>Hortense Slevogt (Berlin, Germany)</td>
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<tr>
<td>09:45</td>
<td>Immunotherapy in SCLC: small step or leap?</td>
<td>Sebahat Ocak (Yvoir, Belgium)</td>
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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)

**09:30** Introduction
Rebecca Craven (London, United Kingdom)

**09:35** Primary prevention of asthma: from risk and protective factors to targeted strategies for prevention
Erika von Mutius (München, Germany)

**09:48** The genetics of asthma and the promise of genomics-guided drug discovery
Gerard H. Koppelman (Groningen, Netherlands)

**10:02** Management of severe asthma in children
Marielle W.H. Pijnenburg (Rotterdam, Netherlands)

**10:15** Discussion and Q & A

**10:25** Conclusion
Rebecca Craven (London, United Kingdom)

**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), Chair to be confirmed

- **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 Selvadurai, Paul D Robinson

- **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

- **Longitudinal course of clinically measured lung clearance index in children with cystic fibrosis**
  Bettina Sarah Frauchiger (Bern, Switzerland), Severin Binggeli, Sophie Yammne, Ben Spycher, Kathryn Ramsey, Philipp Latzin

- **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 Sweezey, 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

Channel 5 Session 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: Chair to be confirmed

Ivacaftor/lumacaftor changes the lung microbiome and metabolome in cystic fibrosis patients

Non-contrast-enhanced assessment of lung perfusion in CF patients during respiratory tract exacerbation using Fourier decomposition magnetic resonance imaging (FDMRI)
Andrea Mazzaro (Mestre-Venezia, Italy), Mirco Ros, Silvia Bertolo, Pierluigi Ciet, Francesco Serafini, Giovanni Morana

Correlation of Hyperpolarised Xenon-129 Magnetic Resonance Imaging (129Xe-MRI) of the Lung with Multi-Breath Washout (MBW) in Children with Severe Asthma
Shahideh Safavi (Nottingham (Nottinghamshire), United Kingdom), Brandon Zanette, Samal Munidasa, Elaine Stirrat, Daniel Li, Theo Moraes, Padmaja Subbarao, Giles Santyr

Interpretation of multiple breath washout (MBW) measurements of lung function using mathematical modelling and hyperpolarised 3He gas MRI
Alex Horsley (Manchester, United Kingdom), Carl Whitfield, Laurie Smith, Oliver Jensen, Noreen West, Martin Wildman, Guilhem Collier, Jim Wild

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 Nekhudova

Using integrated omics to assess the effects of rhinovirus infection in children with Cystic Fibrosis (CF).

Pseudomonas aeruginosa influences the inflammatory response of primary bronchial epithelial cells to rhinovirus infection
Adrian Endres (Frankfurt am Main, Germany), Ralf Schubert, Peter Braubach, Danny Jonigk, Michael Hogardt, Helena Boland, Gernot Rohde, Carla Bellinghausen

A First Look at the Italian Registry on Pulmonary Non-Tuberculous Mycobacteria (NTM) - IRENE
Stefano Alberti (Milano (MI), Italy), Maura Spotti, Giovanni Sotgiu, Maurizio Ferrarese, Paola Francesca Castellotti, Andrea Gramenga, Marina Todolini, Jessica Mencarini, Gina Gualano, Stefania Cerri, Giuliano Montemurro, Giulia Gardini, Andrea Calegario, Federico Dente, Michele Trezzi, Paola Faverio, Mario Malerba, Giulia Cucchetto, Enrico Tortoli, Mehdi Miraeeidi, Antonella Previdi, Andrea Gori, Luigi Ruffo Codecasa, Francesco Blasi , On Behalf Of The Irene Network

A pilot study of a novel ELISA test using synthetic mycolic acid antigens for serodiagnosis of nontuberculous mycobacterial infections.
Julia Bashford (Brisbane (QLD), Australia), R. A. Floto, C. S. Haworth, J. Ryan, J. R. Al Dulayymi, A. Cervi, M. Baird
Ultrasound diaphragm activity in patients with cystic fibrosis: relationship to disease severity and peripheral muscle strength
Anne-Catherine Maynard (Montreal, Canada), François Tremblay, Bruno-Pierre Dubé

**Channel 4**

**Session**

**09:30 - 10:30**

**Oral presentation: Quantitative imaging in diffuse lung disease**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

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**Oxygen enhanced MRI biomarkers of lung function in interstitial lung disease**
Marta Tibiletti (Manchester, United Kingdom), Josephine Naish, Matthew J Heaton, John Waterton, Paul Hughes, James A Eaden, Sarah Skeoch, Nazia Chaudhuri, Ian Bruce, Stephen M. Bianchi, Jim Wild, Geoff Jm Parker

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**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 Wielputz, Franziska Trudzinski, Frederick Trinkmann

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**Ventilation defect quantification on 3He MRI through deep learning: the MESA COPD Study**
Xuzhe Zhang (New York, United States of America), Elsa Angelini, Andrew Laine, Yanping Sun, Grant Hiura, Stephen Dashnaw, Martin Prince, Eric Hoffman, Bharat Ambale-Venkatesh, Joao Lima, Jim Wild, Emlyn Hughes, R. Graham Barr, Wei Shen

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**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

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**Robust automatic segmentation of airway using multi-resolution deep learning**
Stijn Bonte (Kontich, Belgium), Maarten Lanclus, Joana Costa, Cedric Van Holsbeke

**Channel 3**

**Session**

**09:30 - 10:30**

**Oral presentation: Lung epithelial development and repair in three-dimensions**

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

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**Late Breaking Abstract - IPF lung-ECM subjected to cyclic stretch affect cellular activity**
Bryan Falcones Olarte, Linda Elowsson Rendin, Anna Löfdahl, Isaac Almendros Lopez, Jorge Otero, Xiao-Hong Zhou, Martin Silverborn, Leif Bjerner, Göran Dellgren, Ramon Farré, Gunnilla Westergren-Thorsson

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**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

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**Disease modelling following organoid-based expansion of airway epithelial cells**

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**HIF pathway activation is a core regulator of collagen structure-function in lung fibrosis**
Christopher J Breerton (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

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**Hypoxia is associated with a decrease of the expression of the polymeric Immunoglobulin Receptor in a model of human respiratory epithelium.**
Ludovic Gérad (Bruxelles, Belgium), Bruno Detry, Charles Pilette

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**Optimization of Human Lung-Chip cultures to investigate effects of biomechanics on primary airway epithelial cell biology**
Anne M. van der Does, Doris Roth, Sander Van Riet, Annemarie Van Schadewijk, Carolina Lucchesi, Geraldine A. Hamilton, Janna Nawroth, Pieter S. Hiemstra

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**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, Laurene Froment, Susanne Fischer, Thomas M. Marti, Ralph A. Schmid, Ekaterina Bresous-Nystrom, Adrián 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

Channel 1

Session 09:30 - 10:30

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)

09:30 Introduction

09:35 Pulmonary embolism in China: disease burden, management and prevention
Zhenguo Zhai (Beijing, China)

09:45 Application of personalized medicine to obstructive sleep apnoea in China
Yi Xiao (Beijing, China)

09:55 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
Winfried J. Randerath (Solingen, Germany)

10:05 State of the art in pulmonary hypertension
Marion Delcroix (Leuven, Belgium)

10:15 Discussion and Q & A

Studio Madrid

Session 10:40 - 11:40

Symposium: Cystic fibrosis: from cradle to old age
Managing the challenges of a lifelong condition

Aims: To describe major clinical and translational challenges in caring for patients with cystic fibrosis care in the 21st century; and to describe the pathophysiology and clinical characteristics of cystic fibrosis.

Disease(s): Respiratory infections, Paediatric respiratory diseases

Tag(s): Clinical, Translational

Target audience: Paediatrician, Adult pulmonologist/Clinician, Nurse, Physiologist

Chairs: Charlotte Suppli Ulrik (Virum, Denmark), Andrew Bush (London, United Kingdom)

10:40 Introduction

10:45 Lung inflammation in cystic fibrosis: an overlooked therapeutic target?
Stephen M. Stick (Perth (WA), Australia)

10:54 Transition from adolescent to adult care
Trudy Havermans (LEUVEN, Belgium)

11:03 Gastrointestinal issues in cystic fibrosis and their relevance to the lungs
Barry Plant (Cork, Ireland)

11:12 Comorbidities of advanced diseases in patients with cystic fibrosis
Josje Altenburg (Amsterdam (NH), Netherlands)

11:21 Changing demographics of cystic fibrosis and models of care
Stuart Elborn (Belfast (Belfast), United Kingdom)

11:30 Discussion and Q & A

Studio Milan

Session 10:40 - 11:40

Hot topics: Pneumothorax: to drain or not to drain
Aims: To review and discuss the most recent insights in spontaneous pneumothorax management.

Disease(s): Airway diseases

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

Tag(s): Clinical

Target audience: General practitioner, Patient, Radiologist, Medical Student, Physician in Pulmonary Training, Adult pulmonologist/Clinician

Chairs: Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

10:40  Introduction

10:45  No need to treat spontaneous pneumothorax

10:55  Spontaneous pneumothorax need to be treated

Nick Maskell (Bristol (Avon), United Kingdom)

11:05  Aspiration of pneumothorax

Andreas Thelle (Bergen, Norway)

11:15  Role of surgery in pneumothorax treatment

Speaker to be confirmed

11:25  Discussion and Q&A

Channel 3

Session 10:40 - 11:40

Oral presentation: Sarcoidosis: from genetics to epidemiology

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)

Whole Exome Sequencing in familial sarcoidosis targets pathways which may help early diagnosis of severe forms of sarcoidosis.

Alain Calender (Lyon, France), Dominique Valeyre, Thomas Weichhart, Valérie Besnard, Hilario Nunes, Yves Pacheco, Group Sarcoidosis France

Active clinical pulmonary sarcoidosis is characterized by significantly reduced apoptosis rate of alveolar lymphocytes (AL)

Tomasz Wandtke (Bydgoszcz, Poland), Piotr Kopański, Grzegorz Przybylski, Ewelina Wedrowska, Maciej Gnass, Joanna Golitska, Karina Szablowska, Joanna Chorostowska-Wynimko

Autophagy is closely related to the inflammatory process in sarcoidosis uveitis

Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Clarice X. Lim, Pascal Sève, Dominique Valeyre, Florence Jeny, Hilario Nunes, Thomas Weichhart, Yves Pacheco

Exhaled breath analysis using eNose technology in patients with sarcoidosis

Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland-Van Der Zee, Marlies Wijsenbeek

The autoimmune criteria of sarcoidosis

Anna Starshinova (St. Petersburg, Russian Federation), Ulia Zichenko, Anna Malkova, Natalia Basantsova, Igor Kudryavtsev, Michail Filatov, Vladimir Burdakov, Piotr Yablonskiy

Mortality in a well-defined group of predominantly caucasian pulmonary sarcoidosis patients

Harold Mathijssen (Nieuwegein, Netherlands), Marloes Petra Huitema, Annelies L M Bakker, Repke J Snijder, Johannes Jurgen Mager, Jan C. Grutters, Martijn Cornelis Post

Type 2 diabetes mellitus risk associated with sarcoidosis: A Swedish population-based cohort study

Elizabeth V. Arkema (Stockholm, Sweden), Joshua P. Entrop, Susanna Kullberg, Johan Grunewald, Kerstin Brismar
Disease(s): Respiratory critical care, Airway diseases, Sleep and breathing disorders
Method(s): Pulmonary function testing
Chairs: Peter J. Wijkstra (Groningen, Netherlands), Maxime Patout (Mont-Saint Aignan, France)

**Late Breaking Abstract - WEANing From NonInvasive Ventilation - ‘WEANIV’ Study**
Aylin Özşancak Uğurlu (Istanbul, Turkey), Zuhair Karakurt, Raffaele Scala, Ezgi Ozyilmaz, Begum Ergan, Stefano Nava, Fabiano Dimarco, Eylem Tuncay, Giuseppina Ciarleglio, Orhan Othman Hasan, Sara Betti, Lisa Giuliani

**Late Breaking Abstract - CPAP is effective in treating COVID-19 patients with Type 1 respiratory failure.**
Alguli Elsheikh (Basildon, United Kingdom), Vijayalakshmi Karunanithi, Aarani Mahalingam, Muhammad Shafiq, Niranjan Setty, Johnson Samuel

**Pilot study to assess physician compliance in non-invasive ventilation titration based on venous blood gasses versus arterial blood gasses in acute respiratory failure patients**
Jien Cheng (Walkerville, Australia), Vinod Aiyappan, Tanja Effing, Stephen Quinn, Dimitar Sajkov

**Nasal High-flow Versus Non-invasive Ventilation In Patients With Chronic Hypercapnic COPD**
Jens Bräunlich (Leipzig, Germany), Dominic Dellweg, Andreas Bastian, Torsten Blum, Stephan Budweiser, Winfried Randerath, Dora Trichè, Martin Bachmann, Christian Kähler, Abdel Hakim Bayarassou, Irmhild Mäder, Jens Geiseler, David Petroff, Hubert Wirtz

**Comparison of High-Flow and Conventional Nasal Cannula Oxygen in Patients Undergoing Endobronchial Ultrasoundonography**
Elif Yılmazel Uçar (Erzurum, Turkey), Omer Araz, Bugra Kerget, Metin Akgun, Leyla Saglam

**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 Store, 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, Polliana Santos, Guilherme Arêas, Guilherme Casale, Renata Mendes, Andréa Da Silva, Audrey Borghi-Silva

**Non-invasive ventilation outpatient set up in amyotrophic lateral sclerosis**
Shauna Sheridan (London, United Kingdom), Angela Reddy, Patrick B Murphy, Eui-Sik Suh, Shelley Srivastava, Phil Marino, Joerg Steier, Nicholas Hart, Michelle Ramsay, Georgios Kalltsakas

**Oxygen uptake measured at the ventilatory threshold is a mortality marker in COPD**
Thomas Georges (Bois Grenier, France), Salome Courat, Marc Le Vaillant, Hakima Ouksel, Arnaud Chambellan

**Percent Emphysema by Quantitative CT Predicts Exercise Hyperinflation Improvement by Dual Bronchodilator in COPD**
William Stringer (Long Beach, United States of America), Janos Porszasz, Michael Von Plato, Harry Rossiter, Shahid Siddiqui, David Lynch, Stephen Humphries, Richard Casaburi, Stephen Rennard

**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

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), Chair to be confirmed

Late Breaking Abstract - Differences in flavorant levels and synthetic coolant use between USA, EU and Canadian J uul products
Hanno Erythropel (New Haven, United States of America), Paul T. Anastos, Suchitra Krishnan-Sarin, Stephanie S. O'Malley, Sven E. Jordt, Julie B. Zimmerman

Treatment complication rates in continued smokers vs quitters after a diagnosis of lung cancer: a cohort study
Rachel Gemine (llanelli (Dyfed), United Kingdom), Kirsty Lanyon, Gareth Davies, Keir Lewis

Flavor-reactant solvent products in electronic cigarette liquids activate respiratory irritant receptors and elicit cytotoxic metabolic responses in airway epithelial cell
Sven-Eric Jordt (Durham, NC, United States of America), Ana I. Caceres, Hanno Erythropel, Julie B. Zimmerman, Tamara Dewinter, Sairam V. Jabba

Outpatient smoking cessation: preliminary findings of a non-inferiority RCT comparing blended with face-to-face delivery mode
Lutz Siemer (Enschede, Netherlands), Marcel E. Pieterse, Somaya Ben Allouch, Marloes G. Postel, Robbert Sanderman, Marjolein Bruse-Keizer

Asthma do not counteract smoking initiation
Linnea Hedman (Luleå, Sweden), Helena Backman, Martin Andersson, Caroline Stridsman, Eva Rönmark

Acute health effects after passive e-vape among patients with COPD - an RCT exposure study
Karin Rosenkilde Laursen (Århus, Denmark), Jakob H. Bønløkke, Merete Bilde, Mariamne Glasius, Elisabeth Bendstrup, Søren K. Kjærgaard, Anna-Carin Olin, Torben Sigsgaard

Evolution in disease severity during the E-cigarette or Vaping-Associated Lung Injury (EVALI) outbreak
Michael Lanspa (Salt Lake City, United States of America), Dixie Harris, Braden Anderson, Sean Callahan, Susan Rea, Dave Collingridge, David Guidry, Colin Grissom, Denitza Blagev

Association of low-intensity smoking with respiratory and lung cancer mortality

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: Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Chair to be confirmed
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<tr>
<th>Time</th>
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<tr>
<td>10:40</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>10:45</td>
<td><strong>Breathlessness, could it be asthma?</strong></td>
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<td></td>
<td>Mike Thomas (Southampton (Hampshire), UK)</td>
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<tr>
<td>10:55</td>
<td><strong>Breathlessness, could it be COPD?</strong></td>
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<td>Miguel Román Rodriguez (Palma De Mallorca, Spain)</td>
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<td>11:05</td>
<td><strong>Smoking: shady practices of the tobacco industry.</strong></td>
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<td>Speaker to be confirmed</td>
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<td>11:15</td>
<td>&quot;<strong>No Smoking Week&quot; and other activities that clinicians can do or support</strong></td>
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<td>Lucia Gorreto Lopez (Santa Maria del Cami, Spain)</td>
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<td>11:25</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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### Channel 4 Session 11:50 - 12:50

**Challenging clinical cases: Paediatric respiratory diseases**

**Aims:** To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

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

**Tag(s):** Clinical

**Target audience:** Paediatrician, General practitioner, Respiratory critical care physician, Clinical researcher, Thoracic oncologist, Nurse, Physiologist, Respiratory physiotherapist, Radiologist, Thoracic surgeon

**Chairs:** Angela Zacharasiewicz (Wien, Austria), Fabio Midulla (Roma (RM), Italy)

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<th>Time</th>
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<tr>
<td>11:50</td>
<td><strong>Introduction</strong></td>
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<td>11:55</td>
<td><strong>Is it more than just asthma?</strong></td>
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<td></td>
<td>Marijke Proesmans (Leuven, Belgium)</td>
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<td>12:01</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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<td>Marijke Proesmans (Leuven, Belgium)</td>
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<td>12:06</td>
<td><strong>Persistent non-tuberculous mycobacteria in cystic fibrosis</strong></td>
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<td>Manisha Ramphul (Leicester (Leicestershire), UK)</td>
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<td>12:12</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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<td>Manisha Ramphul (Leicester (Leicestershire), UK)</td>
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<td>12:17</td>
<td><strong>Sudden onset of a thoracic mass</strong></td>
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<td>Speaker to be confirmed</td>
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<td>12:23</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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<td>Speaker to be confirmed</td>
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<td>12:28</td>
<td><strong>A deadly cough and the eosinophil</strong></td>
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<td>Speaker to be confirmed</td>
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<td>12:34</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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<td>Speaker to be confirmed</td>
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<td>12:39</td>
<td><strong>A case of necrotizing pneumonia with an unusual presentation</strong></td>
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<td>12:45</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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<td>Speaker to be confirmed</td>
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Introduction

11:50

The need for lung transplantation in cystic fibrosis (CF) in the era of new treatment
Christian Benden (Berne, Switzerland)

11:55

New antifibrotic drugs: will interstitial diseases patients still need lung transplantation?

12:05

New issues in lung transplantation for pulmonary hypertension
Marion Delcroix (Leuven, Belgium)

12:15

Figures and outcomes of lung transplantation
Jens Gottlieb (Hannover, Germany)

12:25

Discussion and Q&A

Studio Madrid Session

11:50 - 12:50

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.

11:50

Introduction

11:55

COPD and bronchitis; how much is caused by work, and which occupations cause the most harm?
David Fishwick (Sheffield (South Yorkshire), United Kingdom)

12:04

Wheeze and crackles: how much does the workplace contribute?
Isabella Annesi Maesano (Paris, France)

12:13

Rare lung diseases and work: always bear occupation in mind when assessing these patients
Denis Vinnikov (Almaty, Kazakhstan)

12:22

How important is work as a risk for lung infections? A story of tuberculosis and pneumonia
Nithiseelan Rajen Naidoo (Durban, South Africa)

12:31

Work, workplace and fitness considerations in patients with occupational lung diseases
Christopher Barber (Sheffield (South Yorkshire), United Kingdom)

12:40

Discussion and Q&A

Oral presentation: Cellular involvement in lung injury
Abstracts presented in this session are also available as E-posters from 24 August 2020
Late Breaking Abstract - Aminopeptidase N/C13 distinguishes two populations of colony-forming mesenchymal stromal cells in human lung tissue
Måns Kadefors (Malmö, Sweden), Sara Rolandsson Enes, Maria Weitoft, Stefan Scheding, Gunilla Westergren-Thorsson

Late Breaking Abstract - Myeloid-derived microvesicles as acute mediators of sepsis-induced lung vascular inflammation
Diianeira Maria Tsiridou (London, United Kingdom), Kieran Patrick O'Dea, Ying Ying Tan, Masao Takata

Blocking Focal adhesion kinase (FAK) protects against damage in a novel model of lymphocyte dominant lung injury
Danica Brister (Calgary (AB), Canada), Gurpreet Aulakah, Hong Zhang, Kamala Patel

A humanized animal model of pulmonary fibrosis based on cellular senescence
Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Federico Pietrocola, Neus Prats, Francesca Ruscitti, Luisa Ragionieri, Giorgio Cattoretti, Gino Villetti, Fabio Stellari

High-plex immunofluorescence single cell analysis of fibrotic murine lung on tissue microarrays
Francesca Ravanetti (Parma, Italy), Roberta Ciccimarra, Maddalena Bolognesi, Francesca Ruscitti, Luisa Ragionieri, Giorgio Cattoretti, Gino Villetti, Fabio Stellari

Secondary crest myofibroblasts serve as transient epithelial niche during alveologenesis
Parviz Minoo (Agoura Hills, California, United States of America)

The role of resident lung mesenchymal stromal cells in normal and aberrant lung development
Ivana Mizikova (Ottawa, Canada), Chanele Cyr-Depauw, Flore Lesage, Marie Hurskainen, Arul Vadivel, Shumei Zhong, Bernard Thébaut

Inflammatory microenvironment in both healthy controls and ARDS patients polarize clinically utilized MSCs towards a pro-inflammatory MSC phenotype
Sara Rolandsson Enes (Lund, Sweden), Thomas H. Hampton, David H. Mekenna, Claudia C. Dos Santos, Kathleen D. Liu, Bruce A. Stanton, Patricia R. M. Rocco, Michael A. Matthey, Daniel J. Weiss

High-dimensional mass cytometry analysis of immune cells in emphysematous lung tissue
Padmini P. S. J. Khedoe (Den Haag, Netherlands), Na Li, Li Jia, Nannan Guo, Pieter S. Hiemstra, Frits Koning, Jan Stolk

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
Matrix Lebeer (Leuven, Belgium), Jo Rasin, Charlotte De Bondt, Annemieck 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 (Ålborg, 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), Yin Chun Loretta Yam, Kit Ying Loletta So
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 Fsadni, 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 Fsadni, 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

Channel 2  Session  11:50 - 12:50
Oral presentation: Genetics and genomics of pulmonary arterial hypertension
Abstracts presented in this session are also available as E-posters from 24 August 2020

**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), Chair to be confirmed

**Multi-omic profiling in pulmonary arterial hypertension**
Pablo Otero-Núñez (London, United Kingdom), Christopher Rhodes, John Wharton, Emilia Swietlik, Sokratis Kariotis, Lars Harbaugh, Mark Dunning, Jason Elinoff, Niamh Errington, Roger Thomson, James Iremonger, Gerry Coghlan, Paul Corris, Luke Howard, David Kiely, Colin Church, Joanna Pepke-Zaba, Mark Toshner, Stephen Wort, Ankil Desai, Marc Humbert, William Nichols, Laura Southgate, David-Alexandre Trégouët, Richard Trembath, Inga Prokopenko, Stefan Gräf, Nicholas Morrell, Dennis Wang, Allan Lawrie, Martin Wilkins

**New rare variant associations with distinct phenotypes in patients with pulmonary arterial hypertension revealed with Bayesian inference.**
Emilia Swietlik (Warszawa, Poland), Katie A Lutz, Daniel Greene, Michael W Pauciulo, Tobias Tilly, Divya Pandya, Na Zhu, Marcella Cogliano, Carrie L Welch, Anna W Coleman, N.I.H.R Bioresource Rare Diseases Consortium, Yufeng Shen, Andrew Swift, Wendy Chung, William C Nichols, Nick W Morrell, Stefan Graf

**Screening of pulmonary arterial hypertension in BMPR2 mutation carriers**
David Montani (Le Kremlin-Bicêtre, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, 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

**Genetic findings in patients with different forms of pulmonary hypertension**
Christina Eichstaedt (Heidelberg, Germany), Zoe Saßmannshausen, Henning Gall, Ardeschir Ghofrani, Hans-Jürgen Seyfarth, Marianne Lerche, Michael Halank, Panagiota Xanthouli, Satenik Harutyunova, Benjamin Eigenlauf, Katrin Milger-Kneidinger, Stefan Rosenkrantz, Ralf Ewert, Mareike Lankeit, Tobias Lange, Katrin Hinderhofer, Ekkehard Grünig

**Haploid genetic screening identifies a novel regulator of BMP2**
Benjamin Dunmore (Cambridge, United Kingdom), Stephen Burr, Paul Upton, James Nathan, Nicholas Morrell

**Protein truncating mutations in ATP13A3 promote pulmonary arterial hypertension**
Ekaterina Legchenko (Cambridge, United Kingdom), Bin Liu, James West, Peter Vangheluwe, Paul Upton, Nicholas Morrell

**Phenotype and outcome of PAH patients carrying a TBX4 mutation**
Pierre Théré (TOUL, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, Maria Rosa Ghigna, Mélanie Eyries, Marilyne Levy, Caroline Ovaert, Amélie Servetraz, 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
Studio Vienna Session 11:50 - 12:50

Lungs on fire: Respiratory infections?

**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, Clinical researcher, General practitioner, Paediatrician, Radiologist, Thoracic surgeon, Nurse, Respiratory physiotherapist

**Chairs:** Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Chair to be confirmed

**Discussants:** Michael Tamm (Basel, Switzerland)

<table>
<thead>
<tr>
<th>11:50</th>
<th>Introduction and presentation by the session discussant</th>
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<tbody>
<tr>
<td></td>
<td>Michael Tamm (Basel, Switzerland)</td>
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</tbody>
</table>

| 11:54 | Case 1 - Author: Sugeesha Wickramasinghe (Sri Lanka)   |
| 12:04 | Discussion and Q & A                                   |

| 12:08 | Case 2 - Author: Anur R. Guhan (United Kingdom)       |
| 12:18 | Discussion and Q & A                                   |

| 12:22 | Case 3 - Author: Kathleen Jahn (Switzerland)          |
| 12:32 | Discussion and Q & A                                   |

| 12:36 | Case 4 - Author: Juliana Rodrigues Garcia (Brazil)    |
| 12:46 | Discussion and Q & A                                   |

Channel 1 Session 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)

<table>
<thead>
<tr>
<th>11:50</th>
<th>Introduction</th>
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</table>

| 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 |

Studio Paris Session 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:50</td>
<td>Introduction</td>
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<tr>
<td>11:55</td>
<td><strong>Is there a problem with short-acting beta-2 agonist monotherapy in asthma?</strong>&lt;br&gt;David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>12:05</td>
<td><strong>Is there a problem with oral corticosteroid use in asthma?</strong>&lt;br&gt;Guy Brusselle (Ghent, Belgium)</td>
</tr>
<tr>
<td>12:15</td>
<td><strong>Is there a problem with inhaled corticosteroid use in COPD?</strong>&lt;br&gt;James D. Chalmers (Dundee (Angus), United Kingdom)</td>
</tr>
<tr>
<td>12:25</td>
<td><strong>ERS Short Guideline: Inhaled corticosteroid withdrawal in COPD</strong>&lt;br&gt;Marc Miravitlles (Barcelona (CT), Spain)</td>
</tr>
<tr>
<td>12:35</td>
<td>Discussion and Q &amp; A</td>
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</tbody>
</table>

**13:00-14:30**

**INDUSTRY LUNCHTIME SESSION**

SEE PAGE 1

**Channel 4**

**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 (Cambridgeshire), United Kingdom), Olivier Sitbon (Le Kremlin-Bicêtre, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td><strong>Pulmonary hypertension in a COPD Patient</strong>&lt;br&gt;Johad Khoury (Elaboun, Israel)</td>
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<tr>
<td>14:41</td>
<td>Discussion and Q &amp; A&lt;br&gt;Johad Khoury (Elaboun, Israel)</td>
</tr>
<tr>
<td>14:46</td>
<td><strong>Correct diagnosis and treatment options for a boy with significant dyspnea on exertion and markedly reduced exercise capacity</strong>&lt;br&gt;Speaker to be confirmed</td>
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<tr>
<td>14:52</td>
<td>Discussion and Q &amp; A&lt;br&gt;Speaker to be confirmed</td>
</tr>
<tr>
<td>14:57</td>
<td><strong>The use of genetic testing in an atypical presentation of pulmonary veno-occlusive disease</strong>&lt;br&gt;Alexander MacLellan (Glasgow, United Kingdom)</td>
</tr>
<tr>
<td>15:03</td>
<td>Discussion and Q &amp; A&lt;br&gt;Alexander MacLellan (Glasgow, United Kingdom)</td>
</tr>
<tr>
<td>15:08</td>
<td><strong>Patient with ankylosing spondylitis and pulmonary hypertension</strong>&lt;br&gt;Speaker to be confirmed</td>
</tr>
</tbody>
</table>
**Studio Milan**

**Session** 14:30 - 15:30

**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**

14:40 **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)

15:00 **Expressing empathy in 15 minutes or less: challenges for clinicians**
Debra Reynolds-Sandford (Adelaide (SA), Australia)

15:10 **Integrating early palliative care for patients with idiopathic pulmonary fibrosis and their caregivers**
Kathleen Lindell (Pittsburgh, United States of America)

15:20 **Discussion and Q&A**

**Studio Madrid**

**Session** 14:30 - 15:30

**Hot topics: (Re-)discovering the small airway epithelium in COVID-19, fibrosing lung diseases and pulmonary regeneration**

**Aims:** To summarize the clinical evidence for a pathogenic role of small airway cells in COVID-19 and fibrosing lung diseases; to explore the novel concept that small airways are central to the processes involved in regenerating and repairing a fibrosing lung. New developments regarding innovative in vitro models will allow us to exploit the regenerative and therapeutic potential of modulating small airway cells in lung fibrosis. AIMS: To highlight the contribution of small airway cells in COVID-19 and lung fibrosis from a clinical perspective; to understand the key role of small airway cells in lung regeneration and fibrosis; to demonstrate the regenerative potential of small airway cells and their likelihood as new therapeutic targets for pulmonary fibrosis; to explore novel models to study small airway cells and their regenerative capacities in pulmonary fibrosing diseases.

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

**Tag(s):** Basic science

**Target audience:** Clinical researcher, Medical Student, Pathologist, Scientist (basic, translational), Thoracic surgeon

**Chairs:** Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

14:30 **Introduction**

14:35 **The role of bronchial epithelial cells in COVID-19 infection and pathogenesis**
Roland Eils (Heidelberg, Germany)

14:45 **Airway basal cell involvement in idiopathic pulmonary fibrosis**
Antje Prasse (Hannover, Germany)

14:55 **Uncovering the plasticity of lung epithelial cells by scRNA sequencing**
Herbert Schiller (Munich, Germany)
15:05  Modeling the regenerative potential of airway epithelial cells  
Pieter S. Hiemstra (Leiden, Netherlands)  

15:15  Discussion and Q & A  

Channel 3  
Session 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)  

LSC - 2019 - The respiratory microbiome and metabolome in chronic hypersensitivity pneumonitis  
Saher B. Shaker (Hellerup, Denmark), Else Helene Ibfelt, Rikke Kart Jacobsen, Tine Iskov Kopp, René Lindholm Cordtz, Anna Svarre Jakobsen, Niels Seersholm, Lene Dreyer  

Combined assessment of regional lung function and morphology using a contrast enhanced Dual-Energy CT protocol: Prospective value of functional imaging biomarkers in longitudinal analysis of patients with Interstitial Lung Disease  
Sarah Scharm (Hannover, Germany), Sabine Dettmer, Jens Vogel-Clausen, Antje Prasse, Lars Knudsen, Frank Wacker, Jan Fuge, Hoen-Oh Shin  

LSC - 2019 - Air space distension precedes spontaneous fibrotic remodeling and impaired cholesterol metabolism in the absence of surfactant protein C  

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 Otala, Diego Castillo Villegas, Craig Glazer, Heiko Müller, Carl Coeck, Manuel Quaresma, Toby M Maher  

Effects of nintedanib in patients with progressive fibrosing ILDs and differing baseline FVC: further analyses of the INBUILD trial  

Effects of nintedanib on progression of ILD in patients with fibrosing ILDs and a progressive phenotype: further analyses of the INBUILD trial  

Channel 2  
Session 14:30 - 15:30  
Oral presentation: Chronic cough: only symptom or disease?  
Abstracts presented in this session are also available as E-posters from 24 August 2020  

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

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

Chairs:  
Chair to be confirmed  

Novel capsaicin challenge methodology: a new diagnostic endpoint?  
Kimberley Holt (Lynn, United Kingdom), Rachel Dockry, Joanne Mitchell, John Belcher, Jaclyn Smith  

EPAC drives the anti-tussive effect of EP4 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  

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, Jennifer Yap, Satoshi Fukuda, Takehiro Uemura, Tomoko Tajiri, Hirotugu Ohkubo, Ken Maeno, Yutaka Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi
The Efficacy of Bradanicline in Refractory Chronic Cough
Yoshihiro Kanemitsu (Kyoto, Japan), Jaclyn Smith, 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, Graigory Garrett, Yun Li, Marie-Helen Vallee, Deborah Panebianco, S. Aubrey Stoch, Marian Iwamoto

Safety and efficacy of P2X3 antagonist BAY 1902607 in refractory chronic cough
Christian Friedrich (Berlin, Germany), Klaus Francke, Surinder S Birring, J W K Van Den Berg, Paul Marsden, Lorcan Megarvey, Alice Turner, Pascal Wielders, Isabella Gashaw, Stefan Klein, Alyn Morice

Azithromycin for the treatment of cough in idiopathic pulmonary fibrosis: A randomized controlled cross-over pilot trial.
Manuela Funke-Chambour (Bern, Switzerland), Christian Clarenbach, Katrin Hostettler, Martin Brutsche, Thomas K. Geiser, Sabina A. Guler

The effects of mechanical cough assist on rate of reintubation in patients with ineffective cough, a preliminary analysis
nicha ruamsap (bangkok, Thailand), Napplika Kongpolprom

Smartphone-based cough detection predicts asthma control - description of a novel, scalable digital biomarker
Frank Rassouli (St. Gallen, 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
Jonathan Schelfhout (North Wales, United States of America), Xiao Luo, 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

Channel 5

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

Chemotherapy outcome of pulmonary tuberculosis with mutations in the FN1 and TNXB genes
Kirill Samsonov (Omsk, Russian Federation), Anna Mordyk

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

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)

Discovery and validation of a personalised risk predictor for incident tuberculosis in settings aiming for pre-elimination
Rishi Gupta (London, United Kingdom), Claire Calderwood, Alexei Yavlinsky, Maria Krutikov, Matteo Quartagno, Maximilian Aichelburg, Neus Altet, Roland Dietl, Claudia Dobler, Jose Dominguez, Joseph Doyle, Connie Erkens, Steffen Geis, Pranab Halder, Anja Hauri, Thomas Hermansen, James Johnston, Christoph Lange, Berit Lange, Frank Van Leth, Laura Munoz, Christine Roder, Kamila Romaniowski, David Roth, Martina Sester, Rosa Sloat, Giovanni Sotgiu, Gerrit Wollmann, Takashi Yoshiyama, Jean-Pierre Zellweger, Dominik Zenner, Robert Aldridge, Andrew Copas, Molebogeng Rangaka, Marc Lipman, Mahdad Noursadeghi, Ibrahim Abubakar

Studio Vienna

Lungs on fire: Respiratory critical care
**Aims:** To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physiologist, Nurse, Paediatrician

**Chairs:** Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

**Discussants:** Antoni Torres (Barcelona, Spain)

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction and presentation by the session facilitator</td>
</tr>
<tr>
<td></td>
<td>Antoni Torres (Barcelona, Spain)</td>
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<tr>
<td>14:34</td>
<td>Case 1 - Author: Hsiao-Ling Chia (Taiwan)</td>
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<tr>
<td>14:44</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>14:48</td>
<td>Case 2 - Author: Baiba Laiko (Latvia)</td>
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<td>14:58</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>15:02</td>
<td>Case 3 - Author: Christoph Fisser (Germany)</td>
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<tr>
<td>15:12</td>
<td>Discussion and Q &amp; A</td>
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<tr>
<td>15:16</td>
<td>Case 4 - Author: Anabell Rojas (Dominican Republic)</td>
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<td>15:26</td>
<td>Discussion and Q &amp; A</td>
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</table>

**Channel 1 Session 14:30 - 15:30**

**Language session: French programme 2020: Part I**

**A joint ERS/SPLF session**

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

**Tag(s):** Clinical

**Chairs:** Bernard Maitre (Créteil Cedex, France), Marc Humbert (Le Kremlin-Bicêtre, France)

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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Des lésions précancéreuses au cancer invasif / From precancerous lesions to invasive carcinoma</td>
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<td></td>
<td>Céline Mascaux (Marseille, France)</td>
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<td>14:45</td>
<td>Troubles respiratoires du sommeil et cancer : données épidémiologiques / Respiratory disorders associated with sleep and cancer: epidemiological data</td>
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<td></td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
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<td>14:55</td>
<td>Tt anti fibrotiques hors FPI: approche raisonnée / Anti-fibrotic treatments for conditions other than idiopathic pulmonary fibrosis</td>
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<td>Vincent Cottin (Lyon, France)</td>
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<td>15:05</td>
<td>Mucoviscidose: enfin des traitements ciblés / Cystic fibrosis: targeted therapies, at last !</td>
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<td></td>
<td>Pierre-Régis Burgel (Sorbonne Paris Cité, France)</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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**Studio Paris Session 14:30 - 15:30**

**Guidelines session: The European Respiratory Society guidelines for the diagnosis of asthma in children aged 5-16 years**

**Aims:** To present the results from the ERS task force for the development of European Respiratory Society guidelines for the diagnosis of asthma in children aged 5-16 years. The background, motivation and methodology to produce such guidelines will be discussed. The core recommendations will be presented and underscored with some clinical cases. A commentary will present a view from outside the task force.
**Disease(s)**: Paediatric respiratory diseases

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Physician in Pulmonary Training

**Chairs**: Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

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<th>Time</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Introduction</td>
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<tr>
<td>14:35</td>
<td>Why Guidelines for Asthma Diagnosis in school children? Background and Motivation</td>
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<tr>
<td></td>
<td>Erol Gaillard (Leicester (Leicestershire), United Kingdom)</td>
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<tr>
<td>14:45</td>
<td>How should Asthma be diagnosed in school children?: Recommendations of the evidence based ERS-</td>
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<td>Guidelines</td>
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<td>Alexander Möller (Zürich, Switzerland)</td>
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<td>14:55</td>
<td>New ERS-Guidelines for Asthma Diagnosis in school children: The view from outside the Task-force</td>
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<td>Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)</td>
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<td>15:05</td>
<td>How do the new Guidelines work: practical approach with cases and interactive questions</td>
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<td>Speaker to be confirmed</td>
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<tr>
<td>15:15</td>
<td>Discussion and Q &amp; A</td>
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**Studio Paris Session 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)

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<th>Time</th>
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<tbody>
<tr>
<td>15:40</td>
<td>Introduction</td>
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<tr>
<td>15:45</td>
<td>An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics</td>
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<td></td>
<td>Herbert Schuller (Munich, Germany)</td>
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<tr>
<td>15:54</td>
<td>The promise of mTOR signaling as a therapeutic target for IPF</td>
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<td>Rachel Chambers (London, United Kingdom)</td>
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<tr>
<td>16:03</td>
<td>Itaconate drives the resolution of pulmonary fibrosis</td>
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<td>Patricia Ogger (London, United Kingdom)</td>
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<tr>
<td>16:12</td>
<td>Versatile workflow for storage, characterization and celltype resolved transcriptional and epigenetic profiling of human lung samples</td>
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<td>Renata Jurkowska (Cardiff (Wales), United Kingdom)</td>
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<tr>
<td>16:21</td>
<td>Mitochondrial iron in the susceptibility, pathogenesis and progression of COPD</td>
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<td>Suzanne Cloonan (New York City, United States of America)</td>
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<tr>
<td>16:30</td>
<td>Discussion and Q &amp; A</td>
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**Studio Madrid Session 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.

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>15:40</td>
<td>Introduction</td>
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<tr>
<td>15:45</td>
<td>An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics</td>
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<td>Herbert Schuller (Munich, Germany)</td>
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<tr>
<td>15:54</td>
<td>The promise of mTOR signaling as a therapeutic target for IPF</td>
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<td>Rachel Chambers (London, United Kingdom)</td>
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<td>16:03</td>
<td>Itaconate drives the resolution of pulmonary fibrosis</td>
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<td>Patricia Ogger (London, United Kingdom)</td>
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<tr>
<td>16:12</td>
<td>Versatile workflow for storage, characterization and celltype resolved transcriptional and epigenetic profiling of human lung samples</td>
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<td>Renata Jurkowska (Cardiff (Wales), United Kingdom)</td>
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<td>16:21</td>
<td>Mitochondrial iron in the susceptibility, pathogenesis and progression of COPD</td>
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<td>Suzanne Cloonan (New York City, United States of America)</td>
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<tr>
<td>16:30</td>
<td>Discussion and Q &amp; A</td>
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</tbody>
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ERS 2020 International Congress DETAILED PROGRAMME TUESDAY 08 SEPTEMBER, 2020
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

15:45 Genetic predisposition and the environment
Maria Molina Molina (Barcelona, Spain)

15:54 Air pollution: particle size matters
Speaker to be confirmed

16:03 Interstitial lung disease and air pollution: in India and beyond
Sheetu Singh (Jaipur (Rajasthan), India)

16:12 Intrinsic and extrinsic environmental factors in IPF
Ganesh Raghu (Seattle, United States of America)

16:21 Microbiome effects on immunity, health and diseases of the lungs
Katerina Antoniou (Heraklion, Greece)

16:30 Discussion and Q & A
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, Jaehoon Lee, Al Jephson, Nathan Jenson, Missy Walker, Jeremy Irvin, Matthew Lungren, Jason Carr, Raj Srivastava, Todd Allen

The impact of a stewardship programme on outcomes in patients admitted with community-acquired pneumonia
Markus Fally (Copenhagen, Denmark), Simone Israelsen, Britta Tarp, Thomas Benfield, Pernille Raven

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 Soigiù, Pedro J. Marcos, Martin Koldtiz, Marcos I. Restrepo

Association of doxycycline and mortality in patients hospitalized with pneumonia
Eric Mortensen (Simsbury, United States of America), Mark Metersky, Antonio Anzueto

Methicillin-susceptible Staphylococcus aureus in Community-Acquired Pneumonia: Risk Factors and Outcomes
Catia Cilloniz Campos (Barcelona, Spain), Cristina Dominedó, Albert Gabarrus, Carolina García-Vidal, Estela Moreno, Carmen Rosa Vargas, Antoni Torres

Pleural effusion in patients with community acquired pneumonia
Joseba Andia Iturrate (Barakaldo, Spain), Luis Alberto Ruiz Iturriaga, Beatriz Gonzalez Quero, Ainhoa Gomez Bonilla, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Sonia Castro Quintas, Alejandro Rezola Carasusan, Leyre Serrano Fernandez, Rafael Zalacain Jorge

Identification of pleural infection microbiological patterns by applying next generation sequencing and bioinformatics analysis
Nikolaos I. Kanellakis (Patras, Greece), Eihab O. Bedawi, John M. Wrightson, John P. Corcoran, Robert Hallifax, Rachel M. Mercer, Vineeth George, Radhika Banka, Maisha Jabeen, Rachelle Åsçåk, Robert F. Miller, Nick A. Maskell, Ioannis Psallidas, Timothy Hinks, Derrick Crook, Najib M. Rahman

Oral presentation: Diagnosis and management of asthma
Abstracts presented in this session are also available as E-posters from 24 August 2020

Channel 2 Session 15:40 - 16:40

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

Late Breaking Abstract - Identifying preventable early risk factors for asthma in Indigenous children: a population cohort study in Western Australia.
Bronwyn Brew (Stockholm, Sweden), Alison Gibberd, Guy Marks, Natalie Strobel, Wendy Allen, Louisa Jorm, Georgina Chambers, Sandra Eades, Bridgette McNamara

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 Ekbom (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 Lundbäck, Eva Rönmark, Laura Lehtimäki, Paula Pallasaho, Pinja Ilmarinen, Hannu Kankaanranta

Risk factors for severe asthma among adults with asthma
Helena Backman (Luleå, 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 Rantalainen (Oulu, Finland), German Tapia, Maria Christine Magnus, Øystein Karlstad, Ketil Størdal, Siri Håberg, Lars Christian Stene, Jouni K J Jaakkola, Wenche Nystad
SABA overreliance and physician visits in Canada
(,), Mena Soliman, Karissa Johnston, Qian Christina, Paul Hernandez, Erika Penz

Real-world treatment patterns of benralizumab therapy for patients with severe asthma
(,), Alain Gendron, Niroshan Sriskandarajah, Karissa Johnston, Kathy M Osenenko

Spirometric phenotypes from early childhood to young adulthood - A CADSET (Chronic Airway Disease Early Stratification) study

**Channel 4**

Session 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), Chair to be confirmed

Significantly reduced exacerbations 3 and 12 months after pulmonary rehabilitation (PR) in patients with uncontrolled asthma
Konrad Schultz (Bad Reichenhall, Germany), Larissa Schwarzkopf, Dennis Nowak, Michael Schuler

In vitro electrostimulation reveals a lack of muscle adaptation in myotubes from COPD patients
Pascal Pomès (Montpellier Cedex 5, France), Matthias Catteau, Emilie Passerieux, Léo Blervaque, Bronia Ayoub, Jacques Mercier, Farès Gouzi, Maurice Hayot

**Channel 3**

Session 15:40 - 16:40

Oral presentation: Aspects of acute and chronic airway infections in children
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Chairs:** Chair to be confirmed

Risk of tuberculosis in pediatric patients treated with biological agents
Ayse Tana Aslan (Ankara, Turkey), Pelin Ashuroglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Tugba Sismanlar Eyuboglu, Emine Nur Sunar Yayla, Sevcan Azime Bakkaloglu Ezgu, Husna Oguz, Soylemezoglu, Necla Buyan

Lung Function Predicts Outcome in Children with Obstructive Lung Disease after Hematopoietic Stem Cell Transplantation
Kyunghoon Kim (Seoul, Republic of Korea), Hye Jin Lee, Seongkoo Kim, Jae Wook Lee, Jong-Seo Yoon, Nack Gyun Chung, Bin Cho
Does declining nutritional status in ataxia telangiectasia cause decline in immunological function
Süha Ugur (Beeston, United Kingdom), Hannah Bailey, Andrew Bush, Lucy Cliffe, Elizabeth Mcdermott, Andrew Payle, Mohsin 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

Community use of digital auscultation to improve diagnosis of childhood pneumonia in low resource setting
Salauddin Ahmed (Dhaka, Bangladesh), Eric Mccollum, Harish Nair, Steve Cunningham, Abdullah Baqui

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

Age-dependent response of the human nasal epithelium to rhinovirus infection
Loretta Müller (Bern, Switzerland), Jakob Usemann, Marco P Alves, Nicole Ritz, Philipp Latzin

Channel 1  Session  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 (Germening, 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

Studio Vienna  Session  15:40 - 17:10
Live from the clinic: Endoscopy and ultrasound: 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 are and tumor detection and sampling procedures are under clinical evaluation. Techniques to be demonstrated are: (navigated) bronchoscopy, EBUS-TBNA, EUS (B) - FNA, radial EBUS, needle based confocal laser endomicroscopy (nCLE), slim cryo, tumor 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
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 present 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 age-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)

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**Studio Madrid**

**Session**

16:50 - 17:50

**Introduction**

15:40

**Endobronchial ultrasound and trans-esophageal endobronchial ultrasound**
Lizzy Wijmans (Amsterdam, Netherlands), Speaker to be confirmed

15:45

**Radial probe endobronchial ultrasound and needle-based confocal laser endomicroscopy**
Peter I. Bonta (Amsterdam, Netherlands), Speaker to be confirmed

16:05

**Navigation bronchoscopy and cryoprobe bronchoscopy**
Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)

16:15

**Tumor ablation**
Ralf Eberhardt (Heidelberg, Germany), Speaker to be confirmed

16:35

**Stent**
Felix J.F. Herth (Heidelberg, Germany), Speaker to be confirmed

16:45

**Rigid thoracoscopy**
Johannes M.A. Daniels (Amsterdam, Netherlands)

16:55

**Discussion and Q & A**

17:05

**Targeting the lung epithelium: does age matter?**
Paul Wolters (San Francisco, United States of America)

16:55

**Senescence and immune ageing**
Mauricio Rojas (Pittsburgh, United States of America)

17:05

**Cellular senescence in regeneration and diseases of the lung**
Mareike Lehmann (München, Germany)

17:15

**The inflammatory niche of the aged lung**
Louise Donnelly (London, United Kingdom)

17:25

**Discussion and Q & A**

17:35

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**Studio Paris**

**Session**

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
- Respiratory physiotherapist
- Scientist (basic, translational)
- Respiratory therapist
- Journalist

### Chairs:
- Reinoud Gosens (Groningen, Netherlands)
- Marijke Proesmans (Leuven, Belgium)

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<td>16:50</td>
<td>Introduction</td>
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<tr>
<td>16:55</td>
<td>Understanding new measurement techniques of the microbiome of the lung and mechanism of bacteria interaction, communication and biofilm formation</td>
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<tr>
<td>17:05</td>
<td>Early life microbiome: the way it changes the future</td>
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<tr>
<td>17:15</td>
<td>Bacterial dysbiosis in pediatric lung diseases such as asthma and CF</td>
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<tr>
<td>17:25</td>
<td>Lung microbial factors as drivers for COPD</td>
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<td>17:35</td>
<td>Discussion and Q &amp; A</td>
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**Channel 5**  Session 16:50 - 17:50

Oral presentation: Muscle, exercise capacity and symptoms of chronic lung disease: a physio update

Abstracts presented in this session are also available as E-posters from 24 August 2020

**Disease(s):**
- Airway diseases
- Respiratory critical care
- Interstitial lung diseases
- Pulmonary vascular diseases

**Method(s):**
- Pulmonary rehabilitation
- Physiology
- Pulmonary function testing
- Epidemiology
- Public health

**Chairs:**
- Deniz Inal-Ince (Ankara, Turkey)
- Cristina Isabel Oliveira Jácome (Viatodos, Portugal)

- **Effects of Ground-Based Walking Training in Pulmonary Hypertension**
  - Özge Ertan (İstanbul, Turkey), Göksen Kuran Aslan, Buke 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, Tetsuri Kondo, Masato Katagiri, Minoru Toyokura

- **Oxygen consumption (V?O2) kinetics during recovery after resistance exercises in COPD and matched controls**
  - Andre Nyberg (Umeå, Sweden), Lori Desroches, Erik Frykholm, Didier Saey, Mickael Martin, François Maltais

- **Is Virtual Autonomous Physiotherapist Tele-rehabilitation Program feasible in Idiopathic Pulmonary Fibrosis?**
  - Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Ole Hilberg, Anders Lokke, Elisabeth Bendstrup

- **Whole-body vibration training versus conventional balance training in patients with severe COPD - a randomized, controlled trial**
  - Rainer Gloeckl (Schönenau 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

**Channel 2**  Session 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)
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 Souïhi, 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 (Julis, 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 Aliberti, 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), 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 Tamm, Morten Karsdal, Daiana Stolz

Channel 4  Session  16:50 - 17:50

Oral presentation: The impact of different treatment modalities on obstructive sleep apnoea
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Sleep and breathing disorders
Method(s): Respiratory intensive care  Physiology  Cell and molecular biology  General respiratory patient care
Chairs: Chair to be confirmed

Late Breaking Abstract - Does adaptive servo ventilation lead to hypocapnia?
André Barleben (Schwerin, Germany), Wolfram Grüning

BLOCKAGE OF TLR4 OR NLRP3 INHIBITS IL-1ß ACTIVATION IN RESPONSE TO INTERMITTENT HYPOXIA
Susan Fitzpatrick (Dublin 4, Ireland), Ailbhe King, Silke Ryan

Intranasal leptin prevents opioid-induced respiratory depression
Vsevolod Y. Polotsky (Baltimore, United States of America), Carla Freire, Huy Pho, Lenise Kim, Xin Wang, Jhansi Dyavananapalli, Stone Streeter, Thomaz 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 Nickel, Emma Hedley, Meredith Decker, Leslee Willes, Peter Calverley, Adam Benjafield, 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

Effects 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 Grillet, 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 RICCADSA randomized controlled trial
Ding Zou (Göteborg, Sweden), Yeliz Celik, Tulay Lindberg, Erik Thunström, Yuksel Peker

Channel 3  Session  16:50 - 17:50

Oral presentation: Treatments and biomarkers for lung allograft function and outcome
Abstracts presented in this session are also available as E-posters from 24 August 2020
Disease(s): Airway diseases  Respiratory critical care
Method(s): Transplantation  Respiratory intensive care  Cell and molecular biology
Chairs: Michael Perch (Gentofte, Denmark), Robin Vos (Leuven, Belgium)

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 (Paris, France), Domitille Mouren, Isabelle Kuzniak, Edgardo Carosella, Joel Le Maoult, 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), Laurens De Sadeler, Bart Vanaudenaerde, 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 Tsriridou, 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-Atou

Channel 1  Session  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)

17:10  Severe asthma guidelines: 2019 update
      Roland Buhl (Mainz, Germany)

17:25  Discussion and Q & A

17:35  New guidelines for treatment of nontuberculous mycobacterial pulmonary disease
      Felix C. Ringshausen (Hannover, Germany)

17:50  Management of severe community acquired pneumonia
      Tobias Welte (Hannover, Germany)
### Studio Milan  
**Session**  
**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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<td>16:50</td>
<td>Introduction</td>
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<tr>
<td>16:55</td>
<td>Drug-related pulmonary hypertension: new threats?</td>
<td>David Montani (Le Kremlin-Bicêtre, France)</td>
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<tr>
<td>17:05</td>
<td>PROs: which instruments are available in pulmonary hypertension?</td>
<td>Joanna Pepke-Zaba (Cambridge (Cambridgeshire), United Kingdom)</td>
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<td>17:15</td>
<td>The metabolic syndrome and pulmonary hypertension</td>
<td>Anna Ryan Hemnes (Nashville, United States of America)</td>
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<tr>
<td>17:25</td>
<td>Novel insights into the pathogenesis of pulmonary arterial hypertension</td>
<td>Marc Humbert (Le Kremlin-Bicêtre, France)</td>
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<td>17:35</td>
<td>Discussion and Q&amp;A</td>
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### Studio Vienna  
**Session**  
**Live from the clinic: Endoscopy and ultrasound: 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 colli 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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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>17:10</td>
<td>Introduction</td>
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<tr>
<td>17:15</td>
<td>Valve: emphysema</td>
<td>Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany), Speaker to be confirmed</td>
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<tr>
<td>17:30</td>
<td>Coil: emphysema</td>
<td>Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)</td>
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<td>17:40</td>
<td>Rheoplasty: bronchitis</td>
<td>Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)</td>
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<tr>
<td>17:55</td>
<td>Targeted lung denervation: COPD</td>
<td>Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)</td>
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<tr>
<td>18:05</td>
<td>Discussion and Q&amp;A</td>
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### Symposium Milan: Cardiovascular morbidity and mortality after pulmonary embolism

**Aims:** To describe the long-term cardiovascular morbidity and mortality after acute pulmonary embolism; to summarize relevant information about acute pulmonary embolism in association with certain specific cardiopulmonary conditions.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient

**Chairs:** Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

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<th>Time</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Introduction</td>
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</table>
| 18:05 | *Atrial fibrillation in the course of pulmonary embolism: just a little smoke or fuel to the fire?*  
Behnood Bikdeli (New York, United States of America) |
| 18:15 | *Management of pulmonary embolism beyond the acute phase: pay attention to long-term sequelae*  
Irene Lang (Wien, Austria) |
| 18:25 | *Venous thromboembolism and arterial atherosclerosis: a bidirectional association*  
Speaker to be confirmed |
| 18:35 | *Closing the gap between pulmonary embolism and sleep apnea*  
Alberto Garcia Ortega (Valencia, Spain) |
| 18:45 | Discussion and Q&A                                                     |

### Studio Paris: Human ex vivo models of interstitial lung disease

**Aims:** To present models of early events of idiopathic pulmonary fibrosis (IPF) ex vivo and the use of these models in evaluating pathogenesis and treatment; and to evaluate the potential use of lung organoids for drug screening.

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

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

**Tag(s):** Basic science

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

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<tr>
<td>18:00</td>
<td>Introduction</td>
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</table>
| 18:05 | *3D tissue culture to study the mechanisms of lung repair in IPF*  
Melanie Konigshoff (Denver, United States of America) |
| 18:15 | *Using induced pluripotent stem cells to study the type II pneumocyte*  
Killian Hurley (Dublin 3, Ireland) |
| 18:25 | *Lung-on-a-chip: state of the art*  
Nina Hobi (Bern, Switzerland) |
| 18:35 | *The role of cell lines in modelling the type II pneumocyte in interstitial lung disease*  
Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom) |
| 18:45 | Discussion and Q&A                                                     |

### Journal Madrid: When the lung gets stiff

**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.

**Diagnosis, treatment and controversy (a joint ERS/New England Journal of Medicine (NEJM) session)

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| 18:35 | *The role of cell lines in modelling the type II pneumocyte in interstitial lung disease*  
Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom) |
| 18:45 | Discussion and Q&A                                                     |
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?
Elisabetta Renzoni (London, United Kingdom), Vincent Cottin (Lyon, France)

18:45 Discussion and Q & A

18:55 Conclusion
Jeffrey Drazen (Boston, United States of America)

Channel 4 Session 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), Chair to be confirmed

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

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

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

Davos@home: patient and health care providers’ perceptions on mHealth after high altitude climate treatment
Rishi Khusial (Den Haag, Netherlands), Sofie Van Koppen, Persijn Honkoop, Louis Rijsjesbeek-Nouwens, Marieke Drijver-Messelink, Jacob Sont

Use of Machine learning to predict asthma exacerbations
Christer Janson (Uppsala, Sweden), Gunnar Johansson, Kjell Larsson, Björn Ställberg, Mario Mueller, Mateusz Luczko, Bine Kjoeller Bjeregaard, Stuart Fell, Gerald Bacher, Bjorn Holzhauer, Pankaj Goyal, Karin Lisspers

Cognitive intelligence support in the detection of COPD
Federico Piffer (Trento (TN), Italy), Romano Nardelli, Filippo Nardelli

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

Engaging younger people in their asthma management - findings from a pilot telemedicine asthma nurse service
Samantha Walker (London, United Kingdom), Andrew Cumella, Jarrad King, Helen Sinton

Channel 5 Session 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

**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

**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 Scicilione, Cecilia Calabrese, Onofrio Resta, Giulia Scioscia, Girolamo Pelaia, Maria Pia Foschino Barbaro

**Management-related costs of Idiopathic Pulmonary Fibrosis (IPF) in Belgium**
Danielle Strems (Grinbergen, Belgium), Benjamin Bondue, Caroline Dahlqvist, Hans Slabbynk, Julien Guiot, Guy F. Joos, Natacha Gusbin, Wim Janssens, Antoine Froidure, Wim Wuyts

**Cost-effectiveness of antifibrotic treatment: real-life data from a Greek University Hospital**
Ilias Dimeas (Athens, Greece), Ioannis Lampropoulos, Dimitrios Raptis, Foteini Malli, Konstantinos Gourgoulianis, Zoe Danil

**Home vs inpatient CPAP titration costs in OSA patients from Southern Italy: the role of telemedicine**
Valentina Di Lecce (Modugno (BA), Italy), Roberto Sabato, Onofrio Resta, Giovanna Elisiana Carpagnano, Andrea Portacci, Pasquale Tondo, Donato Lacedonia, Maria Pia Foschino Barbaro

**Investigating the Respiratory therapist perception of committed medical incidents in Intensive care unit (ICU).**
Abdullah AlQahtani (Nottingham, United Kingdom)

**Estimating the Cost of Pulmonary Embolism in Greece with the help of large data**
Ilias Dimeas (Athens, Greece), Ioannis Lampropoulos, Dimitrios Raptis, Foteini Malli, Eleftherios Aggelopoulos, Zoe Danil, Konstantinos Gourgoulianis

**Publication rate and characteristics of industry-sponsored asthma clinical trials**
Pravin Bolshete (Airoli, India), Snehal Khanolkar, Ruchika Thale, Madhulika Bolshete, Vaibhavi Jakhetia

**The cost of treatment of tuberculosis in children of Belarus**
Larissa Gorbach (Minsk, Belarus)

**COPD and Asthma Disease-specific Health-related Quality of Life Scales and Their Applications in Health Technology Assessment and in China: Literature Review**
Shiyi Gong (Beijing, Switzerland), Hao Hu, Yangxian Zhang, Feng Xie, Ting Yang

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**Ocular presentation:** Cutting edge science: novel molecules and mechanisms of airway diseases
Abstracts presented in this session are also available as E-posters from 24 August 2020

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

**Multiple ascending dose study of AZD1402/PRS-060, an inhaled IL-4Ra antagonist, in mild asthmatics with elevated FeNO**
Ingmar Bruns (New York, United States of America), Mary Fitzgerald, Kayti Aviano, George Mensing, Mei Tsung, Katerina Pardali, Philip Gardiner, David Keeling, Lena Axelsson, Marita Olsson, Cyrus Ghobadi, Oscar Walsh, Kristi Mcclendon, Nicholas Farinola, Lara Hatchuel, David Close

**Inhaled corticosteroid (ICS) induced metabolome changes in asthmatics.**
Peter Daley-Yates (Uxbridge, United Kingdom), Brian Kepler, Noushin Brealey, Shaila Shabbir, Dave Singh, Neil Barnes

**Azithromycin prevents airway epithelial barrier dysfunction induced by sulphur dioxide inhalation**

**Changes in DNA methylation after corticosteroids treatment in COPD patients**
Jos van Nijenatten (Groningen, Netherlands), Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Maarten Van Den Berge, Alen Faiz
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, Ignasiich, Montserrat Puntes Rodriguez, Rosa M. Antonijoan Arbos, Santiago Quirce Gancedo, Nahomi Castro Palomino Laria, Julio Castro Palomino Laria

PG E2 and PG I2 restore defective lung epithelial progenitors induced by cigarette smoke
Xinhui Wu (Groningen, Netherlands), Sophie Bos, Lars Verkleij, Angela D’Ambrosi, Martina Schmidt, Loes Kiestemaker, Reinoud Gosens

Ensifentrine, a dual PDE3/PDE4 inhibitor, improves FEV1 regardless of smoking status or history of chronic bronchitis
Tara Rheault (Research Triangle Park, United States of America), Thomas Bengtsson, Kathleen Rickard

Channel 3
Session 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), Chair to be confirmed

Clinically-relevant tracheostomy prediction model in neonatal bronchopulmonary dysplasia via respiratory MRI
Nara Higano (Cincinnati, United States of America), Stephanie Adakalam, Erik Hysinger, Alistair Bates, Robert Fleck, Andrew Schapiro, Melissa House, Amy Nathan, Shawn Ahlfeld, Jennifer Brady, Andrew Hahn, Sean Fain, Paul Kingma, Jason Woods

Mode of delivery and lung function of 16-19 year olds born at less than 29 weeks gestation
Anne Greenough (London, United Kingdom), Christopher Harris, Alan Lunt, Janet Peacock

Early risk stratification in preterm infants with Bronchopulmonary Dysplasia via pulmonary arterial flow measurements in M R1
Friederike Häither (München, Germany), Alida Kindt, Kai Förster, Christine Von Törne, Stefanie M. Hauck, Benjamin Schubert, Andreas W. Flemmer, Olaf Dietrich, Sophia Stöcklein, Ingram Schulze-Neick, Anne Hilgendorf

Comparison of oxygen-haemoglobin dissociation curves(ODC) and 99mTc-macroaggregated-albumin lung scans(MAA) in the diagnosis of Hepatopulmonary Syndrome(HPS) in children
Emma Russell-Jones (London, United Kingdom), Theodore Dassios, Tassos Grammatikopoulos

Prevalence and consequences of left vocal cord paralysis in young adults born extremely premature with a history of neonatal patent ductus arteriosus surgery
Mette Engan (Bergen, Norway), Merete Engeseth, Ingvid Engesæter, Ole Gamlemshaug, Maria Vollsæter, Thomas Halvorsen, Ola Ornage Rokscund, Hege Clemm

Physiological deadspace in ventilated infants with differing lung pathologies
Emma Williams (London, United Kingdom), Theodore Dassios, Anne Greenough

Contribution of manganese superoxide dismutase Ala16Val to the development of chronic respiratory pathology in children after bronchopulmonary dysplasia
Elena Pavlinova (Omsk, Russian Federation), Irina Kirshina, Ekaterina Kurmasheva, Natalia Vlasenko, Aleksandra Mingairova, Olga Savchenko

Studio Vienna
Session 18:10 - 19:00

Live from the clinic: Endoscopy and ultrasound: Intersitial and pleural diseases

Aims: Endoscopic procedures are important for diagnosing sarcoidosis and various other (fibrotic) interstitial lung diseases. Techniques to be demonstrated are: bronchoscopy with confocal laser endomicroscopy and transbronchial cryobiopsies, EBUS-TBNA and or EUS (B) - FNA. Pleural diseases are frequent for both malignant and infectious/inflammatory diseases. Thoracoscopy is the standard technique for the diagnosis of pleural diseases. Techniques to be demonstrated: rigid thoracoscopy. Transthoracic ultrasound is a helpful tool for investigating clinical problems such as suspected pleural fluid, white hemi thorax, atelectasis, empyema, and diaphragm function analysis. This session will demonstrate some of the most common investigations carried out using transthoracic ultrasound. Systematic assessment of the thorax using ultrasound and various abnormalities (e.g. effusion, atelectasis, empyema) and (post) COVID abnormalities will be demonstrated.

Method(s): Endoscopy and interventional pulmonology

Target audience: Adult pulmonologist/Clinician, General practitioner
**Chairs:** Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

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<tr>
<td>18:10</td>
<td>Introduction</td>
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<tr>
<td>18:15</td>
<td><strong>Congenital lobar emphysema and cryobiopsy: lung fibrosis</strong></td>
<td>Peter I. Bonta (Amsterdam, Netherlands), Lizzy Wijmans (Amsterdam, Netherlands), Julia N.S. d'Hooghe (Amsterdam, Netherlands)</td>
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<td>18:25</td>
<td><strong>Endobronchial ultrasound and trans-esophageal endobronchial ultrasound: sarcoidosis</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>18:35</td>
<td><strong>Thoracic ultrasound: pleural effusion and empyema</strong></td>
<td>Speaker to be confirmed</td>
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<tr>
<td>18:45</td>
<td><strong>Thoracic ultrasound: COVID-19</strong></td>
<td>Speaker to be confirmed</td>
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<td>18:55</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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### Studio Madrid Session 09:30 - 10:30

**Symposium: Early career member: activities, opportunities and motivations**

**Early career member session 2020**

**Aims:** To evaluate the structure 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)

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<tr>
<td>09:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>09:35</td>
<td><strong>ERS: structure, activities, opportunities: view of the Early Career Members Committee (ECMC)</strong></td>
<td>Maxime Patout (Mont-Saint Aignan, France)</td>
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<td>09:45</td>
<td><strong>ERS fellowship: an overview: experience of a Respire3 fellow</strong></td>
<td>Louise Donnelly (London, United Kingdom)</td>
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<td>09:55</td>
<td><strong>Mina Gaga lecture</strong></td>
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<tr>
<td>10:05</td>
<td><strong>Motivation and leadership in science</strong></td>
<td>Daniela Gompelmann (Heidelberg, Germany)</td>
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<tr>
<td>10:15</td>
<td><strong>Discussion and Q &amp; A</strong></td>
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### Studio Vienna Session 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)

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<td><strong>Introduction</strong></td>
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<tr>
<td>09:35</td>
<td><strong>A 2-year-old girl with recurrent wheeze</strong></td>
<td>Megan Frohlich (Narara (NSW), Australia)</td>
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<td>09:55</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Megan Frohlich (Narara (NSW), Australia)</td>
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<tr>
<td>10:05</td>
<td><strong>CHILD: Childhood improbable late diagnoses?</strong></td>
<td>Sormeh Salehian (London, United Kingdom)</td>
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<tr>
<td>10:25</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Sormeh Salehian (London, United Kingdom)</td>
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<td>10:35</td>
<td><strong>What is taking my breath away? A medical detective story</strong></td>
<td>Milanthy Pourier (Nijmegen, Netherlands)</td>
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<td>10:55</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Milanthy Pourier (Nijmegen, Netherlands)</td>
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<tr>
<td>11:05</td>
<td><strong>Persistent lung consolidations in a 9-year-old</strong></td>
<td>Laura Petrarca (Roma (RM), Italy)</td>
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<td>11:25</td>
<td><strong>Discussion and Q &amp; A</strong></td>
<td>Laura Petrarca (Roma (RM), Italy)</td>
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### Studio Paris Session 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.

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

**Tags:** Basic science

**Target Audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physiologist, Scientist (basic, translational)

**Chairs:** Richard Costello (Dublin 9, Ireland), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

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<tr>
<td>09:35</td>
<td><strong>A I for respiratory signals</strong></td>
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<td>Tom Van Steenkiste (Ghent, Belgium)</td>
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<td>09:45</td>
<td><strong>Health patches for wearable respiration monitoring</strong></td>
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<td>Bernard Grundlehner (Eindhoven, Netherlands)</td>
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<td>09:55</td>
<td><strong>Respiration monitoring in COPD patients</strong></td>
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<td>Dolores Blanco-Almazán (Barcelona, Spain)</td>
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<td>10:05</td>
<td><strong>Surveillance of COVID-19 with a radar app</strong></td>
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<td>Niels H. Chavannes (Leiden, Netherlands)</td>
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<tr>
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**Channel 4**

**Session**

**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

**Diseases(s):** Airway diseases

**Methods:** Cell and molecular biology, General respiratory patient care, Epidemiology

**Chairs:** Chair to be confirmed

**Late Breaking Abstract - The burden of pertussis in adults with asthma: a retrospective database study in England**
Emmanuel ARIS (WAYRE, Belgium), Esse Ifebi Akpo, Amit Bhavsar, Lauriane Harrington, Evie Merinopoulou, Nicola Sawalhi-Leckenby, Elisa Turriani, Kinga Meszaros, Dimitra Lambrelli, Piyali Mukherjee

**Late Breaking Abstract - Seroprevalence of Bordetella pertussis in chronic obstructive pulmonary disease (COPD) patients**
Piyali Mukherjee (Wavre, Belgium), Brigitte Cheuvart, Nathalie Baudson, Monique Dodet, Elisa Turriani, Lauriane Harrington, Nadia Meyer, Simona Rondini, Laura Taddei, Peter Van Den Steen

**Late Breaking Abstract - Experimental Respiratory Syncytial Virus infection in adults 60-75 years**
Alex Mann (London, United Kingdom), Mariya Kalinova, Andrew Catchpole, Olesya Rusyn, Veronika Horvathova, Kingsley Eze, Marco De Sa, Alan Bell

**Late Breaking Abstract - Experimental Respiratory Syncytial Virus infection in adults 60-75 years**
Alex Mann (London, United Kingdom), Mariya Kalinova, Andrew Catchpole, Olesya Rusyn, Veronika Horvathova, Kingsley Eze, Marco De Sa, Alan Bell

**Late Breaking Abstract - CPAnet 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 Alastruey-Izquierdo, Christophe Hennquin, Cendrine Godet, Aleksandra Barac, Holger Flick, Oxana Muntenau, Christian B. Laursen, Jesper Rømhild 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 Klenerman, Timothy Stopford Christopher Hinks

**Clinical phenotypes of exacerbation are associated with differences in microbial composition and diversity in COPD**
Holly Rachael Keir (Dundee (Angus), United Kingdom), Alison Dicker, Mike Lonergan, Megan Crichton, Bruce Miller, Ruth Tal Singer, James D Chalmers
Persistence and genetic adaptation of Pseudomonas aeruginosa in patients with COPD.

A high-risk airway mycobiome characterises frequent COPD exacerbators
Pei Yee Tiew (Singapore, Singapore), Alison Dicker, Holly R Keir, Mau Ern Poh, Sze Lei Pang, Sri Anusha Matta, Branden Qi Yu Chua, Huifying Xu, Mariko Siyue Koh, Augustine Tee, John Arputhan, Abhisheganaden, 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), Michéle Mac Aogáin, Kenny Lau Jia Xu, Zhao Cai, Rikky Purbojati, Daniela Drautz-Moses, Nicolas Gaultier, Tavleen Jaggi, Pei Yee Tiew, Thun How Ong, Mariko Siyue Koh, Albert Yick Hou Lim, John Arputhan Abhisheganaden, 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, Xiaojing Cui, Xiaohui Zou, Bin Cao

Channel 2
Session 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

Disease(s) : Airway diseases
Method(s) : Imaging General respiratory patient care Epidemiology Pulmonary function testing
Chairs : Jose Luis Lopez-Campos Bodineau (Sevilla, Spain), Stephanie Everaerts (Leuven, Belgium)

The long-term clinical and economic impact of COPD exacerbations: an observational study (SHERLOCK)
John Haughney (Glasgow, United Kingdom), Amanda J Lee, Mintu Nath, Hana Müllerová, Ulf Holmgren, Enrico De Nigris, Bô Ding

Prediction model of COPD acute exacerbation with big data by machine learning methods
Chin Kook Rhee (Seoul, Republic of Korea), Jin Woo Kim, Kwang Ha Yoo, Ki-Suck Jung

Automated computed tomography lung densitometry in bronchiectasis patients
Rodrigo Abensur Athanazio (São Paulo (SP), Brazil), Marcio Yamada Sawamura, Maria Cecilia Nieves Teixeira Maiorana De Nueci, Samia Zahi Rachad, Alberto Cukier, Regina Maria Cavalho-Pinto, Rafael Stelmach, Antonildes Nascimento Assunção Junior, Marcelo Straus Takahashi, Cesar Higa Nomura

CT evaluations of erector spinae muscle, emphysema, and airway disease for predicting mortality in COPD
Naoya Tanabe (Kyoto, Japan), Susumu Satoh, Kazuya Tanimura, Hiroshi Shima, Tsuyoshi Oguma, Atsuyasu Satoh, Shigeo Muro, Toyohiro Hirai

Validation of clinical clusters for long-term mortality in two European COPD cohorts
Sebastian Gagatek (Stockholm, Sweden), Sara Wijnant, Björn Ställberg, Karin Lisspers, Guy Brusselle, Xing Wu Zhou, Mikael Hasselgren, Scott Montgomery, Josefin Sundh, Janson Christer, Össur Emilsson, Lies Lahousse, Andrei Malinovski

Difficult to manage COPD Exacerbations: Risk factors (DIMECO Study). Turkish Thoracic Society COPD Assembly.

Channel 3
Session 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)
A genome-wide association study of asthma-COPD overlap syndrome (ACOS)

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 Kütlu, Patricia Soares, Fook Tim Chow, Esther Herrera-Luis, Antonio Espuela Ortiz, Maria Del Pino Yanes, Esteban Burchard, Uroš Potočnik, Colin Palmer, Cyrielle Maroteau, Steve Turner, Katia Verhamme, Leila Karimi, Somnath Mukhopadhyay, Wim Timens, Pieter Hiemstra, Mariëlle Pijnenburg, Maarten Van Den Berge, Anke-Hilse Maitland-Van Der Zee, Gerard Koppelman

Interaction between VGF 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

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 Piloni, Francesca Mariani, Noel Gerard Mc Elvaney, Angelo Guido Corsico, Ilaria Ferrarotti

Activation of toxicology-related genes in human airway constructs after exposure to indoor air particulate matter from moisture-damaged houses
Maria-Elisa Nordberg (Kuopio, Finland), Martin Täubel, Hanna Leppänen, Anne Hyvärinen, Kati Huttunen

Channel 1

Session 09:30 - 10:30
Language session: French programme 2020: Part II
A joint ERS/SPLF session

Disease(s): Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s): General respiratory patient care, Physiology, Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician
Chairs: Thierry Troosters (Leuven, Belgium), Chantal Raherison-Semjen (Pessac, France)

09:30 introduction

09:35 Diagnostic de l'EP chez la femme enceinte / Diagnosis of pulmonary embolism in pregnant women
Speaker to be confirmed

09:45 Place des anti-IL5 dans les pathologies éosinophiliques (hors asthme sévère) / Anti-IL-5 therapy for indications other than severe asthma
Philippe Bonniaud (Dijon, France)

09:55 Risques cardiovasculaires et BPCO / Cardiovascular risks and COPD
Bruno Degano (grenoble, France)

10:05 Exploration de la fonction respiratoire selon l'âge / Lung function testing and age
Speaker to be confirmed

10:15 Discussion and Q&A

Studio Milan

Session 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)

09:30 Introduction
09:35 Implementation of lung cancer screening in Europe: the way forward
Emma O’dowd (Nottingham, United Kingdom)

09:45 Perioperative systemic therapy in resectable lung cancer: from standard operating procedures to immuno-oncology and back
Isabelle Opitz (Zurich, Switzerland)

09:55 Radiotherapy in small cell lung cancer: patient options
Speaker to be confirmed

10:05 Update on supportive care
Dragana M. Jovanović (Beograd, Republic of Serbia)

10:15 Discussion and Q & A

Studio Madrid Session 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

10:45 Selection of ILD patients for ICU and ECMO
Cara Agerstrand (New York, United States of America)

10:55 Radiological patterns in ICU: does it matter?
Nicola Sverzellati (Parma (PR), Italy)

11:05 Diagnostic procedures in ICU: bronchoscopy and BAL or tissue?
Claudia Ravaglia (Forlì, Italy)

11:15 Management of ILD patients in ICU
Maria Kokosi (London, United Kingdom)

11:25 Discussion and Q & A

Channel 4 Session 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 (Solingen, Germany), Maria Bonsignore (Palermo, Italy)

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. Bhatwadekar, Shumit Saha, Susan M. Tarlo, Matthew Stanbrook, Mark Inman, Azadeh Yadollahi

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

Exertional dyspnea in patients with OSA: pulmonary gas exchange and systemic vascular abnormalities
Amany Fathy Elbehairy (Alexandria, Egypt), Nesma M. Geneidy, Mona S. El Hoshy, Mohamed Khaled El Feky, Doha El-Sanhoury, Nashwa Hassan Abd Elwahab
Effect of obstructive sleep apnoea on cardiovascular outcomes in patients with acute coronary syndrome: a secondary analysis of the RICADSA trial
Yuksel Peker (Istanbul, Turkey), Erik Thunström, Helena Glantz, Christine Eulenburg

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

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

Reference values for mean overnight saturation in sleep apnoea – the European Sleep Apnoea Database (ESADA)
Ludger Grote (Göteborg, Sweden), Holger Hein, Ozen K. Basoglu, Ondrej Ludka, Johan Verbraecken, Athanasia Pataka, Stefán Mihaicu, Pawel Sliwinski, Tarja Saarela, Marisa Bonsignore, Ding Zou, Jan Hedner

Channel 2

Oral presentation: From diagnosis to management of pulmonary embolism
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Pulmonary vascular diseases, Sleep and breathing disorders
Method(s): General respiratory patient care, Imaging, Epidemiology, Physiology, Public health
Chairs: Laurent Bertoletti (Saint Etienne Cedex, France), Sheila Ramjug (Altrincham, United Kingdom)

Machine learning algorithm for the diagnosis of pulmonary embolism: a proof of concept study
Konstantinos Exarchos (Ioannina, Greece), Agapi Aggelopoulou, Konstantinos Bartzios, Eleni Tisina, Christos Tagkas, Vasileios Drouvis, Olga Toli, Konstantinos Kostikas

Outcome of patients with acute symptomatic pulmonary embolism and psychiatric disorders
Diurbis Josefina Velasco Álvarez (Madrid, Spain), Behnood Bikdeli, Pablo Javier Marchena, Inna Tzoran Rosenthal, Radovan Malý, Raquel López Reyes, Antoni Riera Mestre, Manuel Monreal, David Jimenez Castro

Changes in sleep-disordered breathing from the acute to the stable phase of pulmonary embolism and impact of right ventricular dysfunction: preliminary findings of ESAT study
Alberto García Ortega (Valencia, Spain), Grace Oscullo, Eva Mañas-Baena, Aldara García-Sanchez, Raquel Lopez-Reyes, Juan Jose Jimenez-Aguilella, Pilar Calvillo, Jose Daniel Gomez-Olivas, Silvia Navarro-Rosasles, Maria Jose Selma-Ferrer, Enrique Zaldivar-olmeda, Cristina Navarro-Soriano, David Jimenez-Castro, Miguel Angel Martinez-Garcia

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, Yasmim Herrera, Joseph Poon, Shabnam Nasserifar, Andre Sotelo, Raymonde Jean

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

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

The impact of Initial Pulmonary Vascular Obstruction on the Risk of Recurrence of Pulmonary Embolism: a French prospective cohort
Charles Orione (Brest, France), Francis Couturaud, Cécile Tromeur, Pierre-Yves Le Floch, Pierre-Yves Salaun, Christophe Leroyer

Channel 3

Oral presentation: Origins of respiratory diseases: does 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: Myrofora Goutaki (Bern, Switzerland), Chair to be confirmed

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
Early-life exposure to air pollution and lung function development into adolescence: the GINIplus/LISA birth cohorts
Qi Zhao (China), Iana Markevych, Dietrich Berdel, Andrea Berg, Monika Gappa, Sibylle Koletzko, Carl-Peter Bauer, Holger Schulz, Marie Standl, Joachim Heinrich, Tamara Schikowski

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

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

Dietary vitamin A intake and lung function in childhood: longitudinal study
Mohammad Talaei Pashiri (London, United Kingdom), Georg Lietz, Raquel Granell, Seif O. Shaheen

Reduced antenatal and birth size and time to onset of asthma
Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Lorna Aucott

Childhood bronchitis and adult respiratory outcomes: a prospective study from age 7 to 53 years
Jennifer Perret (Melbourne (VIC), Australia), Adrian Lowe, Danielle Wurzel, Caroline Lodge, Dinh Bui, Bircan Erbas, Bruce Thompson, Garun Hamilton, Michael Abramson, Anne Chang, Haydn Walters, Shyamali Dharmage

Studio Milan              Session              10:40 - 12:50

Live from the clinic: Physiology
Chairs: Mina Gaga (Athens, Greece), Andrea Aliverti (Milan, Italy)

10:40 Introduction

10:45 Body box: What happens in the body box?
Speaker to be confirmed

11:20 Spiroergometrie: Understanding the 9 Wasserman tables in the exercise testing
Speaker to be confirmed

11:55 Cardiopulmonary exercise testing
Speaker to be confirmed

12:35 Discussion and Q & A

Channel 1              Session              10:40 - 11:40

Joint session: What’s new with grand-glass opacities?
A joint ERS/ESTS symposium

Aims: To update knowledge on grand-glass opacities (GGO): 1) natural history driven guidelines; 2) how does artificial intelligence integrate into decision algorithms compared to biopsy; 3) which are the contemporary surgical techniques; 4) how should we consider alternative ablation methods such as stereotactic radiation therapy, percutaneous or transbronchial thermo-ablative procedures.

Disease(s): Thoracic oncology

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 My patient has GGO: what should I consider?
Speaker to be confirmed

10:55 Will artificial Intelligence replace biopsy?
Speaker to be confirmed

11:10 Problems and solutions in contemporary thoracic surgery
Jean-Marc Baste (Rouen, France)
Challenging clinical cases: Thoracic oncology

Aims: To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s): Thoracic oncology

Tag(s): Clinical

Target audience: Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Paediatrician, Pathologist, Nurse, Radiologist, Clinical researcher

Chairs: Torsten Gerriet Blum (Berlin, Germany), Georgia Hardavella (Athens, Greece)

11:50 Introduction

11:55 An extremely rare case of malignant clear Cell "Sugar" tumor of the lung

12:01 An unusual case of lung consolidations, lymph adenopathies and pericardial mass

12:12 Discussion and Q & A

12:17 Solely an eosinophilic pneumonia or something more?

12:23 Discussion and Q & A

12:28 Unusual cause of hydropneumothorax

12:34 Discussion and Q & A

12:39 Slow-growing pulmonary nodules

12:45 Discussion and Q & A

Studio Paris

Symposium: 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)
11:50 Introduction

11:55 Let’s start with the end-user, patients and digital: will they work together?
Dominique Hamerlijnck (Amsterdam, Netherlands)

12:00 Combining digital technologies to monitor asthma control and predict asthma exacerbations
Omar S. Usmani (London, United Kingdom)

12:10 New horizons in digital technologies for respiratory medicine
Vitalii Poberezhets (Vinnytsia, Ukraine)

12:20 Designs of future digital trials and the promise of artificial intelligence
Konstantinos Kostikas (Ioannina, Greece)

12:30 Connected health and eHealth literacy
Lars Kayser (Copenhagen, Denmark)

12:40 Discussion and Q&A

Channel 2 Session 11:50 - 12:50

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)

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

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

Differential effects of pirfenidone and nintedanib on mouse alveolar epithelial organoids
Loes E. M. Kistemaker (Groningen, Netherlands), Manon Woest, Vasiliki Verschut, Reinoud Gosens

The matrix-fibroblast interplay contributes to HIF-1 alpha pathway activation: a possible therapeutic target in idiopathic pulmonary fibrosis (IPF)
Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Liran Dembitz, David Shitrit

Divergent effects of MIF on lung alveolar repair
Shanshan Song (Groningue (GR), Netherlands), Habibie Habibie, Laura Florez-Sampedro, Corry-Anke Brandsma, Gerrit J Poelarends, Barbro N Melgert

HDAC6 inhibition and deletion reduce COPD symptoms in mice and human airway epithelia
Muriel Lizé (Wuppertal, Germany), Sigrid Horstmann, Vera Düsterhus, Cornelia Wiedwald, Carolin Ebert, Annalisa Addante, Carlos Neideck, Stefan Frank, Florian Sohler, Markus Koch

Endoplasmic reticulum stress implication in senescence of small airway fibroblasts from COPD patients.
Eva Delbrel (London, United Kingdom), Catherine Wrench, Peter Fenwick, Jonathan Baker, Louise Donnelly, Peter Barnes

IL33 regulates airway neuronal plasticity in vitro
Pien A. Goldsteen (Groningen, Netherlands), L. Van Der Koog, L. E. M. Kistemaker, Y. S. Prakash, B. Ditz, M. Van Den Berge, G. H. Koppelman, M. C. Nawijn, A. M. Dolga, R. Gosens

Channel 3 Session 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)
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

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

Combined assessment of serum eosinophil-derived neurotoxin and YKL-40 may identify asthma-COPD overlap
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon, Shuichiro Maruoka, Kenji Mizumura, Mari Hikichi, Kunihiko Itoh, Shu Hashimoto

Real world residual disease manifestations after 2-years anti-IL-5 treatment for severe asthma
Katrien A.B. Eger (s-Gravenhage, Netherlands), Johannes A. Kroes, Anneke Ten Brinke, Jacob K. Sont, Elisabeth H. Bel

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

Histopathological comparison of endobronchial biopsies from different pulmonary lobes of severe asthmatic patients
Meropi Karakioulaki (Thessaloniki, Greece), Triantafyllia Koletsa, Eleni Papakonstantinou, Spasenija Savic, Kathleen Jahn, Michael Tam, Daiana Stolz

Combined assessment of serum eosinophil-derived neurotoxin and YKL-40 may identify asthma-COPD overlap
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon, Shuichiro Maruoka, Kenji Mizumura, Mari Hikichi, Kunihiko Itoh, Shu Hashimoto

Impact of the eosinophil variability on severe exacerbations in an asthmatic population
Núria Toledo Pons (Palma De Mallorca, Spain), Job Fm Van Boven, Josep Muncunill Farreny, Aina Millán Pons, Miguel Román Rodriguez, Bernardo López Andrade, Janwillem Wh Kocks, Borja Garcia-Cosio Piqueras
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 ae presented in a separate section 4. Interventional Pulmonology and ILDs.

Disease(s): Interstitial lung diseases, Pulmonary vascular diseases, Thoracic oncology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Radiologist, Thoracic oncologist, Respiratory therapist, Journalist, Thoracic surgeon

Chairs: Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

11:50 Introduction

11:55 Chronic Hypersensitivity pneumonitis: risks factors and therapeutic options
Athol Wells (London, United Kingdom)

12:05 Genetics in ILDs: what does the future hold?
Maria Molina Molina (Barcelona, Spain)

12:15 Invasive approaches in the diagnosis of ILDs
Claudia Ravaglia (Forlì, Italy)

12:25 How systemic inflammatory diseases affect the lung
Michael Kreuter (Heidelberg, Germany)

12:35 Discussion and Q & A

Channel 1 Session 11:50 - 12:50

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: Lars Konge (Virum, Denmark), Chair to be confirmed

11:50 Introduction

11:55 How and why should we train for thoracic ultrasound?
Speaker to be confirmed

12:05 Which criteria indicate competence for endobronchial ultrasound?
Speaker to be confirmed

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

Studio Vienna Session 14:20 - 14:50

Pro/Con debate: Lung cancer screening: is it ready for implementation?

Chairs: Joanna Chorostowska-Wynimko (Warsaw, Poland), Otto Chris Burghuber (Wien, Austria), Gilbert Massard (Esch Sur Alzette, Luxembourg)

14:20 Yes
Hans-Ulrich Kauczor (Heidelberg, Germany)
Channel 4  
Session  
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**  
Speaker to be confirmed

14:41  **Discussion and Q & A**  
Speaker to be confirmed

14:46  **Tracheal schwannoma - an unexpected cause of chronic cough**  
Speaker to be confirmed

14:52  **Discussion and Q & A**  
Speaker to be confirmed

14:57  **The use of imaging to establish the cause of a complex case of respiratory failure**  
Speaker to be confirmed

15:03  **Discussion and Q & A**  
Speaker to be confirmed

15:08  **Plasmacytoma**  
Speaker to be confirmed

15:14  **Discussion and Q & A**  
Speaker to be confirmed

15:19  **An abnormal DLCO measurement**  
Speaker to be confirmed

15:25  **Discussion and Q & A**  
Speaker to be confirmed

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**Symposium Milan: 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)

14:30  **Introduction**
### Studio Madrid Session 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):** Thoracic critical care

**Method(s):** Respiratory intensive care

**Target audience:** Adult pulmonologist/Physician, 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

#### 14:35 How to stratify the risk of failure of noninvasive respiratory assistance

Begüm Ergan (Izmir, Turkey)

#### 14:45 Indications and pitfalls of high-flow nasal cannula (HFNC) outside the intensive care unit

Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)

#### 14:55 Remote monitoring devices: one more point for noninvasive assistance in the wards

Marieke L. Duiverman (Groningen, Netherlands)

#### 15:05 Noninvasive respiratory assistance in respiratory high dependency units: a bargain for high risk patients?

Lara Pisani (Bologna (BO), Italy)

#### 15:15 Discussion and Q&A

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### Channel 2 Session 14:30 - 15:30

**Oral presentation: Ageing, metabolic syndrome and the lung**

Abstracts presented in this session are also available as E-posters from 24 August 2020

**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:** Chair to be confirmed

**Late Breaking Abstract - Tackling the diagnostic challenge of COVID-19 - beyond a ‘false-negative’?**
Anna Behrendt (London, United Kingdom), Ladan Akbarian-Tefaghi, Lisa Amani, Thomas Burns, Sachan Maruthan, Akhilesh Mulay, Ezgi Ozcan, Rabia Warraich, Stephanie Paget, Amina Jaffer, Hannah Jarvis, Simon Brill, Dean Creer

**Unrevealed Structural, Functional and Immunological Pulmonary Changes Induced by Metabolic Syndrome in Elderly**
Maysa A. R. Brandao-Rangel (Sao Jose Dos Campos (SP), Brazil), Renilson M Ferreira, Luis Vicente F Oliveira, Claudio R Frison, Rodolfo P Vieira

**Prognostic nutritional index (PNI): A predictive factor for elderly patients with COPD**
EIKO SUZUKI (Chiba, Japan), Naoko Kawata, Jun Ikari, Rie Anazawa, Masaki Suzuki, Ayako Shimada, Koichiro Tatsunami
Determination of the phenotypic age of the residents of Mexico City. Effect of accelerated aging on lung function and structure
Ivette Buendia Roldán (México D.F, Mexico), Rosario Fernandez-Plata, Annie Pardo, Moises Selman

Underappreciation of coronary artery disease in patients with COPD
Christoph Beyer (Innsbruck, Austria), Alex Pizzini, Anna Boehm, Judith Loeffler-Ragg, Guenter Weiss, Gudrun Feuchtner, Axel Bauer, Guy Friedrich, Fabian Plank

Serum lysophosphatidic acid levels and exacerbation frequency in chronic obstructive pulmonary disease (COPD)
Wei Tew (South San Francisco, United States of America), Qingling Li, Andrew Birnberg, Arindam Chakrabarti, David Choy, Erik Verschueren, Margaret Neighbors, Wendy Sandoval, Carrie Rosenberger, Michele Grimbaldeston

COPD as a risk factor for carotid artery disease (CAD) and low-extremity artery disease (LEAD)
Daniela Buklioska Ilievska (Skopje, North Macedonia), Jordan Minov, Nade Kochovska Kamechevska, Marjan Baloski, Bozidar Poposki

Randomized placebo-controlled trial of nocturnal oxygen in chronic obstructive pulmonary disease
Yves Lacasse (Québec (QC), Canada), Frederic Series, Francois Corbeil, Marc Baltzan, Bruno Paradis, Paula Simao, Araceli Abad-Fernandez, Cristobal Esteban, Miguel Guimaraes, Jean Bourbeau, Shawn Aaron, Sarah Bernard, Francois Maltais

Channel 3
Session 14:30 - 15:30
Oral presentation: Novelties in interventional pulmonology: expanding horizons
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s): Thoracic oncology, Airway diseases
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Cell and molecular biology, Imaging

Endosonography for left adrenal gland assessment in lung cancer patients - 10 years experience
Maciej Gnass (Myślenice, Poland), Stanisław Orzechowski, Joanna Sola, Monika Lis, Monika Skrobot, Pawel Gwoźdź, Anna Filipacka, Jerzy Soja, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski

Concordance between pulmonologist performed rapid on-site evaluation (ROSE) and pathological diagnosis in EBUS-TBNA samples
Maria Perez Morales (San José del valle, Spain), María Morales González, Cayo Javier García Polo, Enrique José González-Moya Rodriguez De Mondelo, Mercedes Merino Sánchez

Liquid biopsy in patients with adenocarcinoma - comparison between bronchoalveolar lavage (BAL) and blood samples
Nikolay Yanev (Pleven, Bulgaria), Evgeni Mekov, Stoyan Bichev, Alexey Savov, Dimitar Kostadinov

Intratumoral Hyperthermic Chemotherapy Injection in Peripheral Non-Small Cell Lung Cancer; a Pilot Study.
Asem Hewidy (Mansoura, Egypt), Mohamed Tohlob, Lucy Suliman, Ahmed Elmorsy, Mohamed Ibrahim

Re-biopsy in Advanced NSCLC after First Line Treatment: Feasibility and Clinical Utility
Malene Støchkel Frank (, Denmark), Uffe Bødskov, Asbjørn Høegholm, Inger Merete Stamp, Julie Gehl

A randomised, controlled trial of the use of a dedicated ballooned intercostal drain
Rachel Mercer (Winchester, United Kingdom), Samuel Kemp, Najib Rahman

Bronchoscopic needle based confocal laser endomicroscopy (nCLE) as a real-time detection tool for peripheral lung cancer
Tess Kramer (Amsterdam, Netherlands), Lizzy Wijmans, Martijn De Bruin, Peter Bonta, Jouke Annema

Channel 1
Session 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
Target(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)

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<th>Time</th>
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<tbody>
<tr>
<td>14:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>14:35</td>
<td><strong>Pathomorphology of COPD</strong></td>
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<td></td>
<td>Maria Samsonova (Moscow, Russian Federation)</td>
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<td>14:45</td>
<td><strong>Classification of COPD: problems and controversies</strong></td>
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<td>Konstantinos Kostikas (Ioannina, Greece)</td>
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<td>14:55</td>
<td><strong>Pulmonary functional diagnosis of COPD</strong></td>
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<td>Zaurbek Aisanov (Moscow, Russian Federation)</td>
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<td>15:05</td>
<td><strong>Control of COPD</strong></td>
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<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
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<td>15:15</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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**Studio Paris Session 14:30 - 15:30**

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

**Big data in clinical practice**

**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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<tr>
<td>14:30</td>
<td><strong>Introduction</strong></td>
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<tr>
<td>14:35</td>
<td><strong>Pneumonia: strain type, vaccination and antibiotic resistance</strong></td>
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<td>14:45</td>
<td><strong>The lung microbiome and its effects on respiratory infections</strong></td>
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<td>Leopoldo N. Segal (New York New York, NY, United States of America)</td>
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<td>14:55</td>
<td><strong>Individualising treatment for tuberculosis: what has whole genome sequencing taught us so far?</strong></td>
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<td>Daniela Maria Cirillo (Milano (MI), Italy)</td>
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<td>15:05</td>
<td><strong>The cystic fibrosis transmembrane conductance regulator and its modulators: clinical implications</strong></td>
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<td>Felix Ratjen (Toronto (ON), Canada)</td>
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<td>15:15</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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**Studio Vienna Session 15:00 - 15:30**

**Pro/Con debate: Do I need a robot in my thoracic surgery operating theatre?**

**Aims**: To compare robotic surgery and video-assisted surgery for the treatment of chest malignancies such as lung cancer and mediastinal neoplasms; to provide an update on current application of robotic-assisted surgery and a thorough analysis of results in terms of preoperative evaluation and selection of patients, surgical outcome, postoperative length of stay, complication rate, general costs, learning curve, compared to the video-assisted thoracic surgery (VATS).

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon

**Chairs**: Joanna Chorostowska-Wynimko (Warsaw, Poland), Otto Chris Burghuber (Wien, Austria), Gilbert Massard (Esch Sur Alzette, Luxembourg)

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<td>Speaker to be confirmed</td>
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Discussion
Speaker to be confirmed

**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)

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<th>Time</th>
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<tr>
<td>15:40</td>
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<td><strong>Introduction</strong></td>
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<tr>
<td>15:45</td>
<td></td>
<td>The effectiveness, health gains and barriers of an in-hospital tobacco cessation intervention. The Ottawa model: a successful story.</td>
<td>Sophia Papadakis (Ottawa (ON), Canada)</td>
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<td>15:54</td>
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<td>A pragmatic tobacco cessation approach: the UK Very Brief Advice and Brief Support and Treatment models for smokers during routine consultations</td>
<td>Alex Bobak (London, United Kingdom)</td>
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<td>16:03</td>
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<td><strong>Patient perspective</strong></td>
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<td>16:08</td>
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<td>How Austria may benefit from a comprehensive smoke-free policy: promoting population-based smoking cessation</td>
<td>Hanns Moshammer (Wien, Austria)</td>
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<td>16:17</td>
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<td>Engaging patients in smoking cessation: from patient involvement to patient health education</td>
<td>Monica Fletcher (Cuckfield, United Kingdom)</td>
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<td>16:26</td>
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<td><strong>Discussion and Q&amp;A</strong></td>
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**Symposium: Community acquired pneumonia – new guidelines, major advances?**

**Aims:** To appraise the recommendations of the new CAP guidelines and revisit important advances and drawbacks of the new recommendations to clinical care; to evaluate established and emerging evidence on complementary diagnostic methods in patients with suspicion of CAP; to revise the management of immunocompromised patients with suspicion of CAP; to discuss alternative diagnosis and management in non-resolving CAP and associated pleural infection.

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

**Tag(s):** Clinical

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

**Chairs:** Eva Polverino (Barcelona, Spain), Tobias Welte (Hannover, Germany)

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<td></td>
<td><strong>Introduction</strong></td>
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<td>15:45</td>
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<td>CAP guidelines 2019 - new and better?</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
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<td>15:55</td>
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<td>Diagnosing CAP – any advances?</td>
<td>Cristina Prat Aymerich (Badalona (Barcelona), Spain)</td>
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<td>16:05</td>
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<td>CAP in the immunocompromised - more common than you think</td>
<td>Julio Ramirez (Louisville, United States of America)</td>
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<td>16:15</td>
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<td>Non-resolving CAP - what to do when antibiotics do not help</td>
<td>Michael Tamm (Basel, Switzerland)</td>
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</table>
16:25  Discussion and Q & A

Studio Vienna  
Session  
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), Otto Chris Burghuber (Wien, Austria), Gilbert Massard (Esch Sur Alzette, Luxembourg)

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  
Dragana M. Jovanović (Beograd, Republic of Serbia)

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  
Wouter H. van Geffen (Leeuwarden, Netherlands)

16:45  A rare case of oligometastatic disease  
Georgia Hardavella (Athens, Greece)

17:05  Discussion and Q & A  
Georgia Hardavella (Athens, Greece)

17:15  Adenoid cystic carcinoma of the trachea: not so benign  
Jo Raskin (Kessel-Lo, Belgium)

17:35  Discussion and Q & A  
Jo Raskin (Kessel-Lo, Belgium)

Channel 4  
Session  
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)

- **Biomarkers of collagen formation are predictive of IPF progression and death**  
  Nils Hoyer (København NV, Denmark), Henrik Jessen, Sarah Rønnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker

- **Effects of nintedanib on markers of epithelial damage in subjects with IPF: data from the INMARK trial**  
  Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom), Imre Noth, Moisés Selman, Vincent Cottin, Yasuhiro Nishioka, Jin Woo Song, Antje Prasse, Eric S White, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Susanne Stowasser, Toby M Maher

- **Association of neoepitopes with disease severity and respiratory hospitalization in patients with IPF**  
  Justin Oldham (Sacramento, United States of America), Jamie L Todd, Megan L Neely, Hillary Mulder, Robert Overton, Hyun J Kim , Mridu Gulati, Thomas B Leonard, Scott M Palmer, Imre Noth, Christian Hesslinger

- **Changes in biomarkers with nintedanib plus sildenafil in subjects with IPF by presence of emphysema in the INSTAGE trial**  
  Eric S White (Ann Arbor, United States of America), Vincent Cottin, Martin Kolb, Toby M Maher, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Manuel Quaresma, Bruno Crestani
**Prognostic value of oxygenated hemoglobin (OxyHem) in fibrosing interstitial lung diseases**
Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Michael Kreuter, Nicolas Kahn, Katharina Höger, Finn Moritz Wilkens, Rudolf Jüres, Franziska Trudzinski

**Diagnosis of interstitial lung diseases using eNose technology**
Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland-Van Der Zee, Marlies Wijsenbeek

**Reduced endogenous secretory RAGE in blood and bronchoalveolar lavage fluid is associated with poor prognosis in idiopathic pulmonary fibrosis**
Kakuhiro Yamaguchi (Hirosima, Japan), Hiroshi Iwamoto, Witold Mazur, Shinichiro Miura, Shinjiro Sakamoto, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Shinichiro Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

**Regional eNOSE application for the diagnosis of lung diseases**
Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland-Van Der Zee, Marlies Wijsenbeek

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### Channel 2 Session 15:40 - 16:40

**Oral presentation: Novel insights into nursing interventions for managing patients with asthma and COPD**

**Abstracts presented in this session are also available as E-posters from 24 August 2020**

**Disease(s):** Respiratory critical care, Airway diseases

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

**Chairs:** Georgia Narsavage (PUNTA GORDA, United States of America), Andreja Sajnic (Zagreb, Croatia)

**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

**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

**Study to Evaluate Satisfaction with the Inhalation Device Used by Patients with Asthma or Chronic Obstructive Pulmonary Disease and the Association with Adherence and Disease Control**
David Diaz Perez (Guimar, Spain), Jordi Giner Donaire, Carme Hernández, Roberto Cabestre

**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, Giti Nadim, Gitte Jørgensen, Lars B Nielsen, Michael K Sørensen, Caroline Heerema, Line L. Tølstad, Annmari T Lassen, Søren Mikkelsen

**ECare|COPD - a massive open online course to empower nurses to enhance self-management skills in patients with COPD**
Miguel Padilha (Porto, Portugal), Paulo Machado, Ana Ribeiro

**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

**An exploration of dyspnoea and determinants in patients with COPD**
Ellen Margrethe Nerheim (Nittedal, Norway), Gunnar Einvik, Vivi Lycke Christensen, Anne Edvardsen

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### Channel 3 Session 15:40 - 16:40

**Oral presentation: Novelties in pulmonary rehabilitation and chronic respiratory care**

**Abstracts presented in this session are also available as E-posters from 24 August 2020**

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

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

**Chairs:** Claire M. Nolan (Richmond, United Kingdom), Michele Vitacca (Gussago (BS), Italy)

**Clinical efficacy of the COPDnet integrated care model**
Alex J Van’t Hul (Bavel, Netherlands), Noortje Koolen, Philip Van Der Wees, Gert Westert, Jeanine Antons, Marianne De Man, Richard Dekhuijzen, Michel Van Den Heuvel

**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, Nicola Ambrosino, Mara Paneroni
Efficiency of home-based pulmonary rehabilitation in adults with asthma
Ayşe Sena Manzak (istanbul, Turkey), Semiramis Özyılmaz, Pınar Atagün Güney

The evidence of benefits of exercise training: Long-term effects of pulmonary rehabilitation in Idiopatic Pulmonary Fibrosis.
Maurizia Lanza (Lusciano (CE), Italy), Ilermando Meoli, Pasquale Imitazione, Salvatore Musella, Anna Annunziata, Giuseppe Fiorentino

Incident Depression in Patients with Chronic Obstructive Pulmonary Disease: a UK Population-based Study
Rayan Siraj (Nottingham, United Kingdom), Tricia Mckeever, Jack Gibson, Charlotte Bolton

Management of chronic breathlessness: a multinational survey of respiratory medicine and palliative care doctors
Caroline Jolley (London, United Kingdom), Malgorzata Krajnik, Nilay Hepgul, Andrew Wilcock, Ewa Jassem, Tomasz Bandurski, Silvia Tanzi, Steffen T Simon, Irene J Higginson

Effects of pulmonary rehabilitation on the sensory and affective dimension of dyspnea
Virginie Molinier (Lodève, France), Nathalie Fernandes, Pauline Caille, Françoise Alexandre, Nelly Heraud

Channel 1  Session  15:40 - 16:40
Language session: Russian speaking programme 2020: Part II
Chronic obstructive pulmonary disease (a joint ERS/RRS/ARSRM session)

Aims: To describe new findings about COPD, including its epidemiology, pathophysiology, diagnosis, clinical course, treatment and rehabilitation.

Disease(s): Airway diseases
Tag(s): Clinical
Chairs: David M. G. Halpin (Exeter, United Kingdom), Andrey Belevskiy (Moscow, Russian Federation)

15:40 Introduction

15:45 Clinical diagnosis of COPD
Sergey Avdeev (Moscow, Russian Federation)

15:55 Imaging of COPD
Igor Tyurin (Moscow, Russian Federation)

16:05 Treatment programs in COPD
David M. G. Halpin (Exeter, United Kingdom)

16:15 Rehabilitation programs in COPD
Speaker to be confirmed

16:25 Discussion and Q&A

Studio Paris  Session  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)

16:50 Introduction

16:55 Mucus and microbes: why does bronchiectasis develop?
Kathryn Ramsey (Bern, Switzerland)

17:05 State of the art management of bronchiectasis
Anne O'Donnell (Washington, United States of America)
### Channel 4 Session 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)

**Genome-wide association study of autoimmune pulmonary alveolar proteinosis in Japan**

**The long-term outcome of adult pulmonary Langerhans cell histiocytosis: a national registry-based prospective cohort study**
Amira Benattia (Rouen, France), Emmanuelle Bugnet, Anouk Walter-Petrich, Gwenael Lorillon, Sylvie Chevret, Abdellatif Tazi

**Bronchoalveolar lavage cytokine profile in patients with Pulmonary Langerhans Cell Histiocytosis differs from other interstitial lung diseases**
Diego Castillo Villegas (Madrid, Spain), Silvia Barril Farre, Paloma Millan Billi, Oriol Sibila Vidal, Alfonso Luque, Paloma Acebo, Sonsoles Hortelano Blanco

**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

**Increase in post-transplant survival and quality of life in pulmonary fibrosis with and without telomere dysfunction**
Lurdres 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 Roim, Maria Molina-Molina

**Acute exacerbation in combined pulmonary fibrosis and emphysema (CPF): what special features?**
Hana Mrassi (Tunis, Tunisia), Imen Bachouch, Nidhal Belloumi, Fatma Chemniti, Soraya Fenniche

### Channel 3 Session 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:** Chair to be confirmed

**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
### Oral presentation: Advances in pharmacological treatment of COPD

**Abstracts presented in this session are also available as E-posters from 24 August 2020**

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

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

**Chairs:** Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Chair to be confirmed

**Late Breaking Abstract - COPD exacerbation benefits relative to pneumonia risk with budesonide/glycopyrronium/formoterol metered dose inhaler: analyses from ETHOS**

Klaus F. Rabe (Kiel, Germany), Fernando J. Martinez, Gary T. Ferguson, Dave Singh, Jadwiga A. Wedzicha, Martin Jenkins, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

**Late Breaking Abstract - Real-world evidence of dual bronchodilator therapy using Clinical COPD Questionnaire in 4700 COPD patients**

Arschang Valipour (Wien, Austria), Sergey Avdeev, Adam Barczyk, Valentina Bayer, Zvi Fridlender, Marjela Georgieva, Ondrej Kudela, Alexey Medvedchikov, Ramona Miron, Maria Sanzharovskaya, Virginija Sileikinen, Jurij Sorli, Marc Spielmanns, Zsuzsanna Szalai

**Prevalence and abundance of selected genes conferring macrolide resistance genes in COPD patients during maintenance treatment with azithromycin**

Sander Talman (Etten-Leur, Netherlands), Remco Djamin, Eefje Schrauwzen, Christian Von Wintersdorff, Petra Wolffs, Paul Savelkou, Sevim Uzun, René Kerstens, Menno Van Der Eerden, Jan Kluytmans

**The effect of the indicated use of β-blockers on the risk of COPD exacerbations: the Rotterdam Study**

Leila Karimi (Rotterdam, Netherlands), Guy Brusselle, Lies Lahousse, Phebe De Nocker, Bruno H Stricker, Katia M C Verhamme

**Small airway disease (SAD) is associated with respiratory symptoms and relevant for therapy in early COPD**

Frederik Trinkmann (Heidelberg, Germany), Julia Schäfer, Franziska Trudzinski, Joshua Gawlitza, Joachim Saur, Ibrahim Akin, Martin Borggreve, Thomas Ganslandt, Felix Herth, Roland Buhl

**Predictive modelling of COPD exacerbation rates using baseline risk factors**

Dave Singh (Manchester, United Kingdom), Fernando J. Martinez, Klaus F. Rabe, John R. Hurst, Mona Bafadhel, Martin Jenkins, Paul Dorinsky, Patrick Darken
Beclometasone, formoterol and glycopyrronium: ceiling effect in small airways of COPD patients
Paola Rogliani (Roma (RM), Italy), Josuel Ora, Andrea Girolami, Immacolata Rossi, Mario Cazzola, Luigino Calzetta

Budesonide/formoterol maintenance and reliever therapy versus fluticasone/salmeterol fixed-dose treatment in patients with COPD
Susan Muiser (Groningen, Netherlands), Bart Luijk, Gert-Jan Braunstahl, Irene Heijink, Helen Reddel, Huib Kerstjens, Maarten Van Den Berge

Seasonal variation in COPD exacerbation rates: budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels in the ETHOS trial
Gary T. Ferguson (Farmington Hills, United States of America), Klaus F. Rabe, Fernando J. Martinez, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie McLaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dornsky

Channel 1 Session 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: Carlos Andres Jimenez Ruiz (Madrid, Spain), Chair to be confirmed

16:50 Introduction

16:55 Environmental pollution: a problem in the Iberian Peninsula: view of the Sociedad Española de Neumología y Cirugía Torácica (SEPAR)
Speaker to be confirmed

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)

17:15 Environmental pollution: a problem in Latin America: view of the Sociedade Brasileira de Pneumologia e Tisiologia (SBPT)
Ubiratan Santos (São Paulo (SP), Brazil)

17:25 Environmental pollution: a problem in Latin America: view of the Asociación Latinoamericana de Tórax (ALAT)
Speaker to be confirmed

17:35 Pollution, air quality and climate change: far beyond wildfire?
José Rogelio Perez Padilla (México D.F, Mexico)

17:50 Discussion and Q&A

Studio Madrid Session 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

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
The role of computed tomography scanning in the differential diagnosis of acute respiratory failure in ventilated patients
Speaker to be confirmed

New molecular diagnostic techniques using bronchoalveolar lavage (BAL) fluid to facilitate the differential diagnosis of acute respiratory failure in intensive care unit patients
Speaker to be confirmed

Role of BAL / lung biopsy in the diagnosis of acute respiratory failure in intensive care unit patients
Venerino Poletti (Forlì, Italy)

The future of pulmonary diagnostics in intensive care unit patients
Lieuwe D.J. Bos (Amsterdam, Netherlands)

Discussion and Q&A

Studio Madrid Session 18:00 - 19:00
Symposium: Managing frailty in patients with acute or chronic lung disorders
Aims: To define frailty and its association with various chronic and acute lung disease; to determine the biology underlying frailty in humans and animals; to describe a clear rationale for early mobilisation/rehabilitation in frail patients; and to evaluate rehabilitative interventions to reverse frailty.

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
Speaker to be confirmed

The biology of frailty
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

Studio Milan Session 18:00 - 19:00
Symposium: E-cigarette or Vaping, product use Associated Lung Injury (EVALI)
Aims: To describe the clinical presentation and radiological findings associated with EVALI; to outline the management and outcome of cases with EVALI; to characterize the pathological findings associated with EVALI; to illustrate different heat-not-burn products, their differences and similarities; to estimate the effect of e-cigarettes as a smoking cessation aid; to debate the benefits and drawbacks of e-cigarette strategy as a smoking cessation aid.

Disease(s): Airway diseases  Respiratory critical care  Respiratory infections
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Respiratory physiotherapist, Respiratory therapist
Chairs: Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Sofia Belo Ravara (Covilhã, Portugal)

Introduction
18:05  Heated tobacco products - differences and uncertainties  
Reto Auer (Bern, Switzerland)

18:15  E-cigarettes and smoking cessation: the evidence or the non-evidence  
Charlotta Pisinger (Frederiksberg, Denmark)

18:25  Clinical aspects of lung injury associated with e-cigarettes or vaping  
Speaker to be confirmed

18:35  Pathology of Vaping-Associated Lung Injury  
Yasmeen Butt (Phoenix, United States of America)

18:45  Discussion and Q & A

Channel 3  Session  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: Raffaella Nenna (Rome, Italy), Chair to be confirmed

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, Houmam 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 Thevasagayam, 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, Sevgi Pekcan, Ayse Tana Aslan, Ebru Yalcin, Deniz Dogru, Uğur Ozcilik, Nural Kiper

Lung ultrasound (LUS) in bronchiolitis  
Domenico Paolo La Regina (Roma, Italy), Silvia Bloise, Raffaella Nenna, Marco Laudisa, Prisca Polidoro, Antonella Frassanito, Ambra Nicolai, 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 Hassoun, Céline Lustremant, Delphine Habouria, Annick Clement, Ralph Epaud, For The Respirare And Respifil Groups

Implementation of a gene panel for the genetic diagnosis of primary ciliary dyskinesia  
Sandra Rovira Amigo (Barcelona, Spain), Noelia Baz Redon, Núria Camats Tarulla, Mónica Fernández Cancio, Ída Paramonov, Silvia Castillo Corullon, María Cols, Araceli Caballero, Carlos Martín De Vicente, Óscar Asensio, Ana Reula, Amparo Escibano, Francisco Dasi, Miguel Armengot Carceller, Eduardo Tizzano, Antonio Moreno Galdó

Channel 2  Session  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)

Late Breaking Abstract - Dupilumab long-term safety and efficacy in patients with asthma: LIBERTY ASTHMA TRAVERSE  
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

Antti 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
Elisabeth H.D. Bel (Amsterdam, Netherlands), 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 eosinophilic 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 Daizadet, 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 Pavlincek, 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

Channel 4  Session  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 : Chair to be confirmed

The use of the lytic D29 mycobacteriophages for accelerated determination of the drug sensitivity of tuberculosis mycobacteria to first and second-line anti-TB drugs in clinical isolates obtained after initial cultivation
Mikhail Vladimirsky (Moscow, Russian Federation), Marina Lapenkova, Yulia Alyapkina, Irina Vasilyeva, Greta Arustamova, Pavel Philippov

Genomic factors associated with katG-S315T in Mycobacterium tuberculosis clinical isolates in Vietnam
Nguyen Thi Le Hang (Hanoi, Vietnam), 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 Mitarai, Seiya Kato, Naoto Keicho

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 Sterke, Mette Christensen, Ulla Møller Weinreich

Mortality and associated factors among drug-resistant tuberculosis patients in Portugal, 2000-2016
Olena Oliveira (Porto, Portugal), Rita Gaso, Teresa Rito, Margarida Correia-Neves, Raquel Duarte

Role of N-acetylcysteine(NAC) in preventing development of anti tuberculosis therapy(ATT) induced liver injury in pulmonary tuberculosis(PTB) patients, a simple randomized single blind clinical trial
Sadaf Ahmed (Karachi, Pakistan), Nisar Ahmed Rao

IP-10 decreases during antituberculous treatment in children with active tuberculosis.
Agnieszka Strzelak (Warszawa, Poland), Anna Komorowska-Piotrowska, Agnieszka Borowa, Maria Krasinska, Wojciech Feleszko, Marek Kulus

Studio Vienna  Session  18:00 - 19:00

Lungs on fire: Lung cancer?
Aims: To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflection and discussion of these cases.

Disease(s): Thoracic oncology, Respiratory infections, Interstitial lung diseases
Tag(s): Clinical
Target audience: Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Clinical researcher, General practitioner, Adult pulmonologist/Clinician, Paediatrician, Radiologist, Nurse, Pathologist
Chairs: Joanna Chorostowska-Wynimko (Warsaw, Poland), Otto Chris Burghuber (Wien, Austria), Gilbert Massard (Esch Sur Alzette, Luxembourg)

Discussants: Sam Janes (London, United Kingdom)

18:00 Introduction and presentation by the session facilitator
Sam Janes (London, United Kingdom)

18:04 Case 1 - Author: Kayan Chiang (Hong Kong)

18:14 Discussion and Q & A

18:18 Case 2 - Author: Emily Harvey (United Kingdom)

18:28 Discussion and Q & A

18:32 Case 3 - Author: Michael Jan Engelhardt (Germany)

18:42 Discussion and Q & A

18:46 Case 4 - Author: Ana Luisa Fernandes (Portugal)

18:56 Discussion and Q & A

Channel 1 Session 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
Jose Miguel Chatkin (Porto Alegre (RS), Brazil)

18:25 Household pollution and lung cancer: beyond tobacco
Speaker to be confirmed

18:35 Physical activity in polluted areas
Fabio Pitta (Londrina, Brazil)

18:45 Discussion and Q & A
INDUSTRY SPONSORED SESSIONS
Industry Lunchtime Session: Inhalers for COPD and Asthma: reviews

Aims: To gain a better understanding of the current and upcoming inhaler technologies.

Chairs: Chair to be confirmed

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URRUTIA A.
URRUTIA L.
URRUTIA GAJATE A.
URRUTIA ROY BO.
URS R.
URWYLER P.
URYASEV O.
USACHEVA M.
USANDIVARAS M.
USELMANN T.
USEMANN J.
USENKO G.
USHKOV A.
USLU B.